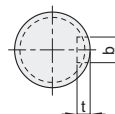
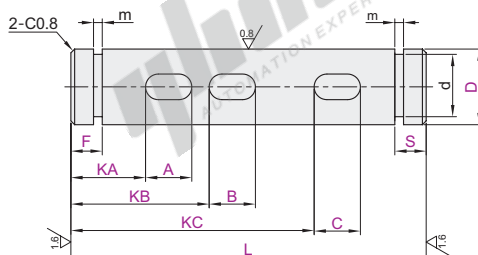


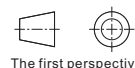
Rotary Shafts

Retaining Ring Grooves on Both Ends with Keyways Straight

Code	Type	D Tolerance	Material		Surface Treatment
			GB	Equiv.	
MAF02	Retaining Ring Grooves on Both Ends with keyway	g6	45	S45C	Electroless Nickel Plating
MAF11			0Cr18Ni9	SUS304	—
MAF32		h7	45	S45C	Electroless Nickel Plating
MAF41			0Cr18Ni9	SUS304	—
MAF62		h9	45	S45C	Electroless Nickel Plating



- ① Roundness, straightness, perpendicularity and coaxiality, please refer to the introduction of shaft products.
② For keyway and retaining rings details, please refer to the rotary shafts product introduction.



g6

Part Number		L	F · S	Keyway① Keyway② Keyway③			Retaining Ring No. Accessories: Retaining Rings 2 Pcs
Code	D _{g6}			KA-A	KB-B	KC-C	
		0.1 mm Inc.	1 mm Inc.	1 mm Inc.			
MAF02	6	18.0~300.0	3≤F<L/2 3≤S<L/2				TBP12-5
	8	18.0~400.0	4≤F<L/2				TBP12-7
	10	20.0~500.0	4≤S<L/2				TBP02-10
	12	35.0~600.0					TBP02-12
	13	45.0~700.0					TBP02-13
	15	45.0~700.0					TBP02-15
	16	45.0~800.0	5≤F<L/2				TBP02-16
	17		5≤S<L/2	KA≥F	KB≥F	KC≥KB+B	TBP02-17
MAF11	18	65.0~800.0		b≤A≤100	b≤B≤100	b≤C≤100	TBP02-18
	20						TBP02-20
	22						TBP02-22
	25						TBP02-25
	30						TBP02-30
	35	75.0~800.0	6≤F<L/2				TBP02-35
	40		6≤S<L/2				TBP02-40
	50	95.0~800.0					TBP02-50

① MAF11 cannot select D13, 16, 18, 22.

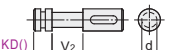
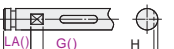
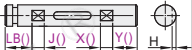
h7

Part Number		L	F · S	Keyway① Keyway② Keyway③			Retaining Ring No. Accessories: Retaining Rings 2 Pcs
Code	D _{h7}			KA-A	KB-B	KC-C	
		0.1 mm Inc.	1 mm Inc.	1 mm Inc.			
MAF32	6	18.0~300.0	3≤F<L/2 3≤S<L/2				TBP12-5
	8	18.0~400.0	4≤F<L/2				TBP12-7
	10	20.0~500.0	4≤S<L/2				TBP02-10
	12	35.0~600.0					TBP02-12
	15	45.0~700.0	5≤F<L/2				TBP02-15
	20	55.0~800.0	5≤S<L/2	KA≥F	KB≥F	KC≥KB+B	TBP02-20
MAF41	25			b≤A≤100	b≤B≤100	b≤C≤100	TBP02-25
	30						TBP02-30
	35	75.0~800.0	6≤F<L/2				TBP02-35
	40		6≤S<L/2				TBP02-40
	50	95.0~800.0					TBP02-50

h9

Part Number		L	F · S	Keyway① Keyway② Keyway③			Retaining Ring No. Accessories: Retaining Rings 2 Pcs
Code	D _{h9}			KA-A	KB-B	KC-C	
		0.1 mm Inc.	1 mm Inc.	1 mm Inc.			
MAF62	6	18.0~300.0	3≤F<L/2 3≤S<L/2				TBP12-5
	8	18.0~400.0	4≤F<L/2				TBP12-7
	10	20.0~500.0	4≤S<L/2				TBP02-10
	12	35.0~600.0					TBP02-12
	15	45.0~700.0	5≤F<L/2				TBP02-15
	20	55.0~800.0	5≤S<L/2	KA≥F	KB≥F	KC≥KB+B	TBP02-20
	25			b≤A≤100	b≤B≤100	b≤C≤100	TBP02-25
	30						TBP02-30
	35	75.0~800.0	6≤F<L/2				TBP02-35
	50		6≤S<L/2				TBP02-50



Code	Spec.																																							
KD ()	Adds a Slit Cam Groove  Ordering Code KD10 ① 1 mm Inc. ② Only applicable to D=6~12. <table><tr><th>D</th><th>d</th><th>V2</th></tr><tr><td>6</td><td>5</td><td>4</td></tr><tr><td>8</td><td>7</td><td>4</td></tr><tr><td>10</td><td>8</td><td>5</td></tr><tr><td>12</td><td>10</td><td>5</td></tr></table>	D	d	V2	6	5	4	8	7	4	10	8	5	12	10	5																								
D	d	V2																																						
6	5	4																																						
8	7	4																																						
10	8	5																																						
12	10	5																																						
KE ()	Adds a Wrench Flat  Ordering Code KE10 ① 1 mm Inc. <table><tr><th>D</th><th>W</th><th>V1</th></tr><tr><td>6</td><td>5</td><td>10</td></tr><tr><td>8</td><td>7</td><td>10</td></tr><tr><td>10</td><td>8</td><td>10</td></tr><tr><td>12</td><td>10</td><td>10</td></tr><tr><td>15</td><td>13</td><td>12</td></tr><tr><td>17</td><td>14</td><td>12</td></tr><tr><td>20</td><td>17</td><td>16</td></tr><tr><td>25</td><td>22</td><td>16</td></tr><tr><td>30</td><td>27</td><td>20</td></tr><tr><td>35</td><td>30</td><td>20</td></tr><tr><td>40</td><td>36</td><td>20</td></tr><tr><td>50</td><td>41</td><td>20</td></tr></table>	D	W	V1	6	5	10	8	7	10	10	8	10	12	10	10	15	13	12	17	14	12	20	17	16	25	22	16	30	27	20	35	30	20	40	36	20	50	41	20
D	W	V1																																						
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25	22	16																																						
30	27	20																																						
35	30	20																																						
40	36	20																																						
50	41	20																																						
LA () LB ()	Adds 1 Set Screw Flat. LA ()  Ordering Code LA10-G3 Ordering Code LB10-J3-Y10-X3 ① 1 mm Inc. ② G·J·X ≤50. <table><tr><th>D</th><th>H</th></tr><tr><td>6~17</td><td>1</td></tr><tr><td>18~40</td><td>2</td></tr><tr><td>50</td><td>3</td></tr></table> Adds 2 Set Screw Flats. LB () 	D	H	6~17	1	18~40	2	50	3																															
D	H																																							
6~17	1																																							
18~40	2																																							
50	3																																							



Per	1~4	5~
Price	100%	Additional quotation



Delivery
8

① No Surface Treatment



② with Surface Treatment



Part Number		L	F·S	KA-A	KB-B	KC-C
Code	D					
MAF02	6	18~300	3≤F<L/2	KA≥0	KB≥0	KC≥0
	8	18~400	4≤F<L/2	b≤A≤100	b≤B≤100	b≤C≤100

MAF02-D8-L350-F5-S5-KA10-A10-KB90-B30-KC210-C30

Optional Processing

Part Number	L	F·S	KA-A	KB-B	KC-C	Optional Processing Code
Code D						
MAF02	6	18-300	3≤F<L/2	KA≥0	KB≥0	KC≥0
	8	18-400	4≤F<L/2	b≤A≤100	b≤B≤100	b≤C≤100

MAF02-D8-L350-F5-S5-KA10-A10-KB90-B30-KC210-C30-LA280-G10