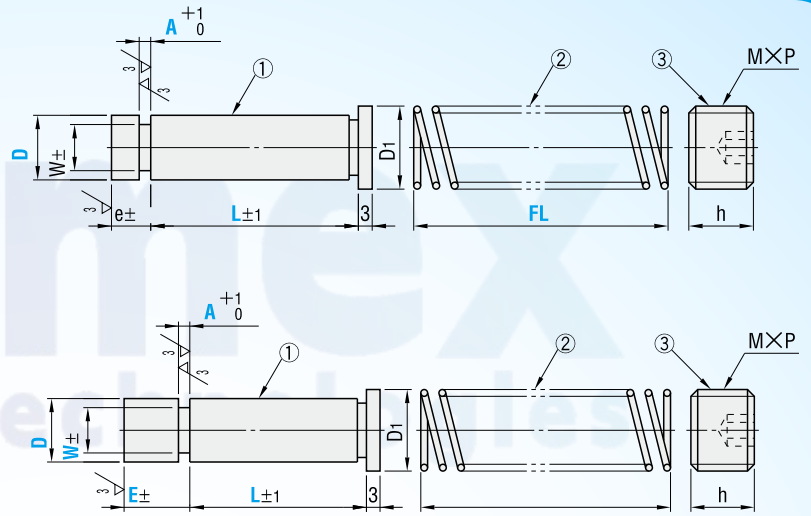




Type	Part Number	Components		
		① Pin	② Spring	③ Screw
Standard	DGLS	○	○	○
Configurable L·A Dimensions	DGLSH	○	○	○
Standard	DGLS	○		
Configurable L·A Dimensions	DGLSH	○		

Type	Part Number	Components		
		① Pin	② Spring	③ Screw
Configurable L·A·E·W dimensions	DGLSK	○	○	○
	DGLK	○		



① Standard Type

Part Number		① DGLP				③ MSW			L	A	② Spring	
Type	D	D _{g6}		e	W	D ₁	M x P	h			Type	FL
DGLS ①②③ DGLP ①	4	4	-0.004	5	2.0	6	8 x 1.25	8	101520222528303335364045505560	0.5 0.8 1.0	WR	20
	6	6	-0.012		3.6	8	10 x 1.5		10152022252830333536404550	0.5 0.8 1.0 1.6	WF	25
	8	8	-0.005	7	5.0	10	12 x 1.5	10	101520222528303335364045505560	1.0 1.6 2.0	WL	30
	10	10	-0.014		6.0	13	16 x 1.5		20222528303335364045505560	1.6 2.0 2.5	WT	35
	13	13	-0.006	12	7.0	16	20 x 1.5	12	20222528303335364045505560	2.0 2.5 3.6	WM	40
	16	16	-0.017		8.0	19	22 x 1.5		30333536404550556070	2.0 2.5 3.6	WH	45
	20	20	-0.007		10.0	23	27 x 1.5		30333536404550556070	3.6 5.0	WL-WT	50
			-0.020								WM-WT	55
												60
												65
												70
												75
												80
												85
												90
												95
												100

① Springs ② are unavailable in certain types and sizes. Check the "Combinations of guide lifter pin and spring" table on the page at right.

① Configurable L·A dimension type

Part Number		① DGLH				③ MSW			0.1mm Increments		② Spring	
Type	D	D _{g6}		e	W	D ₁	M x P	h	L	A	Type	FL
DGLSH ①②③ DGLH ①	4	4	-0.004	5	2.0	6	8 x 1.25	8	10.0 ~ 55.0	0.5 ~ 2.0	WR	20
	6	6	-0.012		3.6	8	10 x 1.5		10.0 ~ 75.0	0.5 ~ 3.0	WF	25
	8	8	-0.005	7	5.0	10	12 x 1.5	10	10.0 ~ 75.0	0.7 ~ 4.5	WL	30
	10	10	-0.014		6.0	13	16 x 1.5		10.0 ~ 90.0	0.7 ~ 4.5	WT	35
	13	13	-0.006	12	7.0	16	20 x 1.5	12	10.0 ~ 90.0	1.0 ~ 6.0	WM	40
	16	16	-0.017		8.0	19	22 x 1.5		10.0 ~ 100.0	1.0 ~ 6.0	WH	45
	20	20	-0.007		10.0	23	27 x 1.5		15.0 ~ 100.0	1.0 ~ 6.0	WL	50
	25	25	-0.020		13.0	28	33 x 1.5		15.0 ~ 100.0	1.0 ~ 6.0	WT	55
											WM	60
											WH	65
												70
												75
												80
												85
												90
												95
												100

① Springs ② are unavailable in certain types and sizes. Check the "Combinations of guide lifter pin and spring" table on the page at right.

① Configurable L·A·E·W dimension type

Part Number		① DGLK		③ MSW		0.1mm Increments				② Spring	
Type	D	D _{g6}		M x P	h	L	A	E	W	Type	FL
DGLSK ①②③ DGLK ①	4	4	-0.004	8 x 1.25	8	15.0 ~ 45.0	0.5 ~ 2.0	5.0 ~ 10.0	1.5 ~ 02.2	WR	20
	6	6	-0.012	10 x 1.5		15.0 ~ 72.0	0.5 ~ 3.0	5.0 ~ 10.0	2.5 ~ 04.6	WF	25
	8	8	-0.005	12 x 1.5	10	15.0 ~ 72.0	0.7 ~ 4.5	5.0 ~ 10.0	3.5 ~ 06.0	WL	30
	10	10	-0.014	16 x 1.5		15.0 ~ 82.0	0.7 ~ 4.5	5.0 ~ 15.0	5.0 ~ 08.0	WT	35
	13	13	-0.006	20 x 1.5	12	20.0 ~ 82.0	1.0 ~ 6.0	5.0 ~ 15.0	6.0 ~ 11.0	WM	40
	16	16	-0.017	22 x 1.5		20.0 ~ 82.0	1.0 ~ 6.0	10.0 ~ 20.0	6.0 ~ 14.0	WH	45
	20	20	-0.007	27 x 1.5		20.0 ~ 82.0	1.0 ~ 6.0	10.0 ~ 20.0	10.0 ~ 18.0	WL	50
	25	25	-0.020	33 x 1.5		20.0 ~ 82.0	1.0 ~ 6.0	10.0 ~ 20.0	13.0 ~ 22.0	WT	55
										WM	60
										WH	65
											70
											75
											80
											85
											90
											95
											100

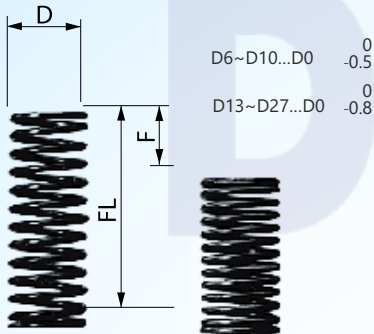
① E ≥ A + 2

① Springs ② are unavailable in certain types and sizes. Check the "Combinations of guide lifter pin and spring" table on the page at right.



Guide Lifter Sets

② Coil springs For detailed specifications



D6~D10...D0 -0.5
D13~D27...D0 -0.8

Spring constant table		② Spring						
Pin		Type	WR	WF	WL	WT	WM	WH
Part Number No.								
Type	D	D						
DGLS	4	6	N/mm 0.3 {kgf/mm} {0.03}	N/mm 0.5 {kgf/mm} {0.05}	N/mm 1.0 {kgf/mm} {0.1}	N/mm 2.0 {kgf/mm} {0.2}	N/mm 2.9 {kgf/mm} {0.3}	N/mm 5.9 {kgf/mm} {0.6}
	6	8						
	8	10						
DGLSH	10	13						9.8 {1.0}
	13	16						
DGLSK	16	18	0.5{0.05}	1.0{0.1}	2.9 {0.3}	3.9 {0.4}	4.9 {0.5}	14.7 {1.5}
	20	22						
	25	27						
Maximum allowable deflection Fmax			F=L×60%	F=L×45%	F=L×40%	F=L×40%	F=L×35%	F=L×30%

Tolerance for spring constant: ±10%

● Load calculation method Load N {kgf} = Spring constant N/mm {kgf/mm} × Deflection Fmm ● Tolerance for spring constant: ±10%

Combinations of guide lifter pins and springs (○ indicates an available set.)

D	Type	DGLS4-DGLSH4-DGLSK4						DGLS6-DGLSH6-DGLK6						DGLS8-DGLSH8-DGLK8						DGLS10-DGLSH10-DGLSK10					
		WR6	WF6	WL6	WT6	WM6	WH6	WR8	WF8	WL8	WT8	WM8	WH8	WR10	WF10	WL10	WT10	WM10	WT10	WR13	WF13	WL13	WT13	WM13	WH13
20~40 (5mm Increments)																									
	45	○	○	○	○	○	○*	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
	50	○	○	○	○	○	○*	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
	55	○	○	○	○*	○*	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
	60	○	○	○	○*	○*	○*	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
	65	○	○	○	○*	○*	○*	○	○	○	○	○*	○	○	○	○	○	○	○	○	○	○	○	○	○
	70	○	○	○	○*	○*	○*	○	○	○	○	○	○*	○	○	○	○	○	○	○	○	○	○	○	○
	80	○	○	○	○*	○*	○*	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
	90	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○

FL	Type	DGLS13-DGLSH13-DGLSK13						DGLS16-GLSH16-GLSK16						DGLS20-DGLSH20-DGLSK20				DGLSH25-DGLSK25			
		WR16	WF16	WL16	WT16	WM16	WH16	WR18	WF18	WL18	WT18	WM18	WH18	WL22	WT22	WM22	WH22	WL27	WT27	WH27	WH28
	20	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
	25	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
	30 ~ 70 (5mm increments)	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
	80	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
	90	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
	100	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○

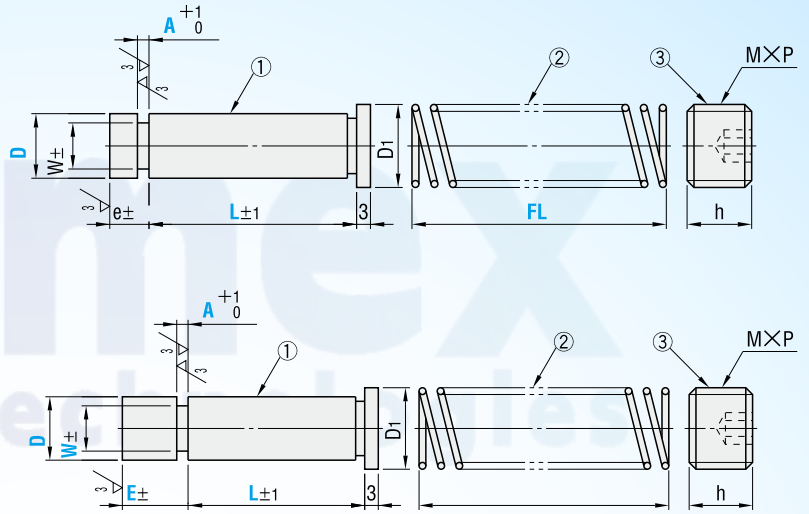


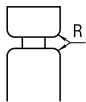
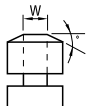
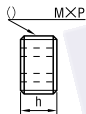
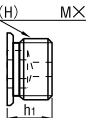
Guide Lifter Sets



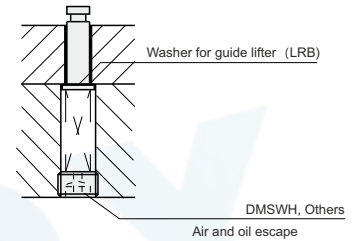
Type	Part Number	Components		
		① Pin	② Spring	③ Screw
Standard	DGLS			
Configurable L-A Dimensions	DGLSH			
Standard	DGLS			
Configurable L-A Dimensions	DGLSH			

Type	Part Number	Components		
		① Pin	② Spring	③ Screw
Configurable L·A·E·W dimensions	DGLSK			
	DGLK			

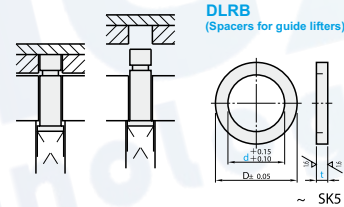


Alteration	Code	Spec.										
	KRC	Chamfering of head upper and lower surfaces to R indicated at right Can be used for DGLSH·DGLSH·DGLSK·DGLK <table><tr><th>D</th><th>R</th></tr><tr><td>4・6</td><td>0.3</td></tr><tr><td>8~13</td><td>0.5</td></tr><tr><td>16・20</td><td>1.0</td></tr><tr><td>25</td><td>1.5</td></tr></table>	D	R	4・6	0.3	8~13	0.5	16・20	1.0	25	1.5
D	R											
4・6	0.3											
8~13	0.5											
16・20	1.0											
25	1.5											
	GC	Head taper(150) machining can be used for DGLSH·DGLH·DLSK·DGLK										
	WA	Change of provided screw plug to DMSWA (Through Hole Type) Can be used for DGLSH·DGLSK.										
	WZH	Change of provided screw plug to DMSWZH (washer face type) Can be used for DGLSH·DGLSK Can be used for D6~25. <table><tr><th>DMSW</th><th>DMSWZH</th></tr><tr><td>D6~10</td><td>h=10 → h1=12</td></tr><tr><td>D13~25</td><td>h=12 → h1=15</td></tr></table>	DMSW	DMSWZH	D6~10	h=10 → h1=12	D13~25	h=12 → h1=15				
DMSW	DMSWZH											
D6~10	h=10 → h1=12											
D13~25	h=12 → h1=15											

Example



Features (DGLSK·DGLK)
Adjusting the E dimension makes it possible to machine a stripper plate through-hole.



Part Number	D	d	t
DLRB	6	4	
	7	5	
	8	6	0.1
	10	8	0.2
	13	10	0.3
	16	13	0.5
	19	16	1.0
	23	20	

Part Number	L	A	E	W	② (Type FL)
-------------	---	---	---	---	-------------

GLS 8	30	2.0			WH40
GLP 6	25	1.6			WL35
DGLSH 6	25.0	2.4			
GLH 13	60.0	3.0			
DGLSK16	50.0	1.2	E15.0	W12.0	Wm60
GLK20	45.5	1.5	E18.0	W14.0	

L	A	E	W	②	(KRC,etc)
GLSH 8	30	2.0	E10	W7.0	WH40
GLSK 10	35	0.8			Wt45



- Basic Specifications
 - Shape : Pin
 - Stopping methods : Flange stopper
 - With/without air hole : W/O