

Circular Posts

One End Threaded One End Tapped, Wrench Flats

For this product, L dim. can be configured in 0.1mm increments by specifying LKC Alteration.

One End Threaded One End Tapped



L Dimension Selectable	Type					Material	Surface Treatment	* C0.2~0.5 at the corner
	Standard	Wrench Flats	Thread Dia. Configurable	Thread Dia. Configurable	Thread Dia. Configurable, Wrench Flats			
-	NETGRF	NETGRS	NETG	NETGS		Steel for General Structure	Black Oxide Electroless Nickel Plating Trivalent Chromate (Black)	
ETKGR	ETKGRF	ETKGRS	ETKG	ETKGS				
PETGR	PETGRF	PETGRS	PETG	PETGS				
-	BETGRF	BETGRS	BETG	BETGS				
SETGR	SETGRF	SETGRS	SETG	SETGS		SUS304	-	

• L Dimension Selectable

• L Dimension Configurable

• Thread Dia. Configurable

• L Dimension Configurable, Wrench Flats

• Thread Dia. Configurable, Wrench Flats

Trivalent Chromate (Black) may not always be fully deposited on internal tapped threads.

D tolerance of trivalent chromate (black) is ± 0.05 .

$SC \leq L - \ell_1$

Tapping may cause slight swelling of D dimension.

Anti-rust Oil is applied on products made of Steel for General Structure.

Wrench flats vicinity with no surface treatment may become glossy due to barrel grinding.

L Dimension Selectable

Part Number	Type	D	L Selection														M (Coarse)	S	W	ℓ_1
Steel for General Structure	ETKGR	6	15	20	25	30	35	40	45	50	60	70	80	90	100	110	120	130	140	150
		8	20	25	30	35	40	45	50	60	70	80	90	100	110	120	130	140	150	200
		10	25	30	35	40	45	50	60	70	80	90	100	110	120	130	140	150	200	250
		12	30	35	40	45	50	60	70	80	90	100	110	120	130	140	150	200	250	300
SUS304	SETGR	15	30	35	40	45	50	60	70	80	90	100	110	120	130	140	150	200	250	300
		20	40	45	50	60	70	80	90	100	110	120	130	140	150	200	250	300	350	400

L Dimension Configurable / L Dimension Configurable, Wrench Flats

Part Number	Type	D	L Selection	SC	M (Coarse)	W	ℓ_1
L Dimension Configurable	Steel for General Structure	5	15~100	0~92	2.6	4	8
		6	15~100	0~92	3	5	8
		8	20~200	0~192	4	7	8
		10	20~400	0~392	5	8	8
		12	25~500	0~490	6	10	10
		15	30~600	0~590	8	13	10
		20	35~600	0~590	10	17	10
		25	45~700	0~690	12	22	10
		30	55~800	0~785	16	27	15
		*35	55~900	0~885	16	30	15
		*40	65~1000	0~980	20	36	20
		*50	80~1000	0~980	24	41	20
L Dimension Configurable, Wrench Flats	Steel for General Structure	5	15~100	0~92	2.6	4	8
		6	15~100	0~92	3	5	8
		8	20~200	0~192	4	7	8
		10	20~400	0~392	5	8	8
		12	25~500	0~490	6	10	10
		15	30~600	0~590	8	13	10
		20	35~600	0~590	10	17	10
		25	45~700	0~690	12	22	10
		30	55~800	0~785	16	27	15
		*35	55~900	0~885	16	30	15
		*40	65~1000	0~980	20	36	20
		*50	80~1000	0~980	24	41	20

* D ≥ 35 is applicable only to N□□□□, E□□□□ and P□□□□.

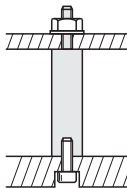
Thread Dia. Configurable / Thread Dia. Configurable, Wrench Flats

Part Number	Type	D	L Selection	SC	M (Coarse)	N (Coarse)	W	ℓ_1
Thread Dia. Configurable	Thread Dia. Configurable, Wrench Flats	5	15~100	0~92	2.6 3 4	2.6 3	4	8
		6	15~100	0~92	3 4 5	3 4	5	8
		8	20~200	0~192	3 4 5 6	3 4 5	7	8
		10	20~400	0~392	3 4 5 6 8	3 4 5 6	8	8
		12	25~500	0~490	4 5 6 8	4 5 6 8	10	10
		15	30~600	0~590	5 6 8 10 12	5 6 8 10	13	10
		20	40~600	0~590	5 6 8 10 12 16	5 6 8 10 12	17	10
		25	55~700	0~690	5 6 8 10 12 16 20	5 6 8 10 12 16	22	10
		30	65~800	0~785	5 6 8 10 12 16 20 24	5 6 8 10 12 16 20	27	15
		*35	80~900	0~885	6 8 10 12 16 20 24	6 8 10 12 16 20 24	30	15
		*40	80~1000	0~980	8 10 12 16 20 24	8 10 12 16 20 24	36	20
		*50	80~1000	0~980	10 12 16 20 24	10 12 16 20 24	41	20
Steel for General Structure	Steel for General Structure	5	15~100	0~92	2.6 3 4	2.6 3	4	8
		6	15~100	0~92	3 4 5	3 4	5	8
		8	20~200	0~192	3 4 5 6	3 4 5	7	8
		10	20~400	0~392	3 4 5 6 8	3 4 5 6	8	8
		12	25~500	0~490	4 5 6 8	4 5 6 8	10	10
		15	30~600	0~590	5 6 8 10 12	5 6 8 10	13	10
		20	40~600	0~590	5 6 8 10 12 16	5 6 8 10 12	17	10
		25	55~700	0~690	5 6 8 10 12 16 20	5 6 8 10 12 16	22	10
		30	65~800	0~785	5 6 8 10 12 16 20 24	5 6 8 10 12 16 20	27	15
		*35	80~900	0~885	6 8 10 12 16 20 24	6 8 10 12 16 20 24	30	15
		*40	80~1000	0~980	8 10 12 16 20 24	8 10 12 16 20 24	36	20
		*50	80~1000	0~980	10 12 16 20 24	10 12 16 20 24	41	20

* D ≥ 35 is applicable only to N□□□□, E□□□□ and P□□□□. When L-SC $\leq$ Nx3, W-N $\geq$ 2 is required. L $\geq$ Nx3+2

L Dimension Tolerance	
L15~300	± 0.1
L300.5~600	± 0.3
L600.5~1000	± 0.4

Ordering Example	Part Number	-	L	-	SC	-	M	-	N
	ETKGR10	-	150						
	ETKGRF6	-	32						
	ETKG12	-	250						
	ETKGS20	-	400	-	SC100	-	M6	-	N8



For products uncovered by the e-Catalog Standard, see P.131.

L Dimension Selectable

Part Number	Type	D	Min. L ~ 50	L60~100	L110~150	L200
Steel for General Structure	Black Oxide	6	-	-	-	-
		8	-	-	-	-
		10	-	-	-	-
		12	-	-	-	-
		15	-	-	-	-
ETKGR		20	-	-	-	-

L Dimension Configurable / L Dimension Configurable, Wrench Flats

Part Number	Type	D	Min. L ~ 200	L200.5~400	L400.5~600	L600.5~800	L800.5~1000
Steel for General Structure	Black Oxide	5	-	-	-	-	-
		6	-	-	-	-	-
		8	-	-	-	-	-
		10	-	-	-	-	-
		12	-	-	-	-	-
		15	-	-	-	-	-
		20	-	-	-	-	-
		25	-	-	-	-	-
		30	-	-	-	-	-
		35	-	-	-	-	-
		40	-	-	-	-	-
		50	-	-	-	-	-
Steel for General Structure	Black Oxide	5	-	-	-	-	-
		6	-	-	-	-	-
		8	-	-	-	-	-
		10	-	-	-	-	-
		12	-	-	-	-	-
		15	-	-	-	-	-
		20	-	-	-	-	-
		25	-	-	-	-	-
		30	-	-	-	-	-
		35	-	-	-	-	-
		40	-	-	-	-	-
		50	-	-	-	-	-

Thread Dia. Configurable / Thread Dia. Configurable, Wrench Flats

Part Number	Type	D	Min. L ~ 200	L200.5~400	L400.5~600	L600.5~800	L800.5~1000
Steel for General Structure	Black Oxide	5	-	-	-	-	-
		6	-	-	-	-	-
		8	-	-	-	-	-
		10	-	-	-	-	-
		12	-	-	-	-	-
		15	-	-	-	-	-
		20	-	-	-	-	-
		25	-	-	-	-	-
		30	-	-	-	-	-
		35	-	-	-	-	-
		40	-	-	-	-	-
		50	-	-	-	-	-
Steel for General Structure	Black Oxide	5	-	-	-	-	-
		6	-	-	-	-	-
		8	-	-	-	-	-
		10	-	-	-	-	-
		12	-	-	-	-	-
		15	-	-	-	-	-
		20	-	-	-	-	-
		25	-	-	-	-	-
		30	-	-	-	-	-
		35	-	-	-	-	-
		40	-	-	-	-	-
		50	-	-	-	-	-

Alterations	Part Number	-	L	-	SC	-	M	-	N	-	(LKC, MLC, HL)
	ETKGRF10	-	150								- MLC7.0
	ETKG12	-	250.3								- M6 - N8 - LKC
	ETKGS20	-	400	-	SC100	-	M08	-	N10	-	- LKC - HL10

Alterations	L Dimension Tolerance	Effective Tapped Length	Threaded Length	Through Hole for Hex Wrench
Code	LKC	MD ND	MLC	HL
Spec.	L Dimension tolerances are as follows: [Ordering Code] LKC By specifying LKC, L dim. can be configured in 0.1mm increment. L Tolerance 8~300 ± 0.05 300.5~600 ± 0.10 600.5~1000 ± 0.15 *Not Applicable to L Dimension Selectable Type.	Changes the Effective Tapped Length to "M (N) x 3." [Ordering Code] MD3/ND3 (M is changed to MD, or N is changed to ND.) *Not Applicable to L Dimension Selectable Type.	Changes the threaded length. *Not applicable to D=5. *Not Applicable to L Dimension Selectable Type. MLC = 0.1mm Increment *Mx1=MLC-Mx1.5 [Ordering Code] MLC10	HL = 1mm Increment [Ordering Code] HL10 *d/2+5 $\leq$ HL $\leq$ L-(d/2+5) *Applicable to 8 $\leq$ D $\leq$ 30 only D d Hex Wrench Width 8 2.5 2 10 3 2.5 12 3.5 3 15 4.6 4 *When HL is combined with SC, a through hole is machined in perpendicular to SC part. *Not Applicable to L Dimension Selectable Type.