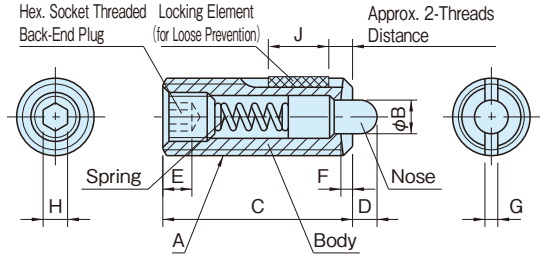


LPL,LPLN

SPRING PLUNGERS



Type	Body	Spring	Nose	Locking Element
LPLL LPL LPLH	Steel (SUM22L) Black oxide finish	Steel (SWPA)	Steel(SUM22L) Black oxide finish (LPLL10·LPLL12:Chrome plate) HRC56~60	Polyamide plastic
LPLNL LPLN			Polyacetal	

Type / Size	A	B	C	D	E	F	G	H	J	Moment (N·m)		Weight (g)	Plunger Wrenches	
										Insertion	Removal			
LPLL LPL LPLH LPLNL LPLN	5	M 5x0.8	2.4	18	2.3	2	0.8	0.8	1.5	7	0.12	0.08	1.3	PW 5
	6	M 6x1	2.7	20	2.5	2.5	1	1	2		0.45	0.22	2.5	PW 6
	8	M 8x1.25	3.5	22	3	3.5	1.4	1.2	2.5	8	1.05	0.37	6	PW 8
	10	M10x1.5	4		3		1.6	3	9	1.3	0.6	9	PW10	
	12	M12x1.75	6	28	4	5	2	2	4	10	2	1.3	16	PW12
	16	M16x2	7.5	32	5	6	2.5	2.5	5	14	3.9	3	35	PW16

LPLL LPL LPLH (Steel Nose)

Light Force		Heavy Force		Extra Heavy Force	
Part Number	Force (N) Initial - Final	Part Number	Force (N) Initial - Final	Part Number	Force (N) Initial - Final
LPLL 5	3~10	LPL 5	6~ 20	LPLH 5	11~ 29
LPLL 6	3~ 9	LPL 6	7~ 20	LPLH 6	14~ 37
LPLL 8	4~16	LPL 8	9~ 35	LPLH 8	22~ 65
LPLL10		LPL10		LPLH10	19~ 70
LPLL12	5~27	LPL12	10~ 55	LPLH12	25~ 85
LPLL16	20~45	LPL16	45~100	LPLH16	60~150

LPLNL LPLN (Plastic Nose)

Light Force		Heavy Force	
Part Number	Force (N) Initial - Final	Part Number	Force (N) Initial - Final
LPLNL 5	3~10	LPLN 5	6~ 20
LPLNL 6	3~ 9	LPLN 6	7~ 20
LPLNL 8	4~16	LPLN 8	9~ 35
LPLNL10		LPLN10	
LPLNL12	5~27	LPLN12	10~ 55
LPLNL16	20~45	LPLN16	45~100

- The nylon locking element holds the plunger securely in place after installation.
- Locking effect lasts in repeated use of up to around 20 times.
- Heat resistance : 80°C
- The nylon-nose design prevents marring.
- Plunger wrenches (PW) are available for installing Spring Plungers from the back-end side.
- Once the current version of LPLL10, LPLL12 plungers with a zinc-plated nose runs out of stock, they will be provided with a black-oxide-finished nose.
- Identification lines are marked at the back end :
one for LPLL and LPLNL type and two for LPLH type.