

SPRING PLUNGERS / WRENCHES



SGP Stock

PRINTED IN RED

The quantity discount rate is also applicable to alteration cost.

All price & lead time are to be quoted.

Spring plungers
—Steel type—

RoHS

Type	Main body		Pin		Spring	Service temp. range		
	M	S	M	S	M			
Steel nose	For light load	PJL	S45C	29~35HRC	Black oxide (Fe ₃ O ₄)	Bright chrome plating		
	For heavy load	PJH			S45C		57~63HRC (Carburizing)	Black oxide (Fe ₃ O ₄)
	For extremely heavy load	PJX			Nickel plating			
Resin nose	For light load	NPJL	S45C	29~35HRC	Black oxide (Fe ₃ O ₄)	SWP-B		
	For heavy load	NPJH			Polyacetal		—	
	For extremely heavy load	NPJX			Nickel plating			

⚠ Thread-locking adhesive is not applied on M3 and M4.

⚠ To fix the position of the ball plunger microencapsulated anaerobic adhesive is applied. Once the parts have been loosened, adhesion is lost, use an anaerobic adhesive when reassembling.

⚠ The adhesive is most effective if left on the part for 72 hours and more in 25°C. Note if the parts are left for short period of time and in low temperature, the thread-lock will be less-effective.

d	ℓ	L		B	For light load (PJL-NPJL)			For heavy load (PJH-NPJH)			For extremely heavy load (PJX-NPJX)			Catalog No.	S			
		Light and heavy loads	Extremely heavy loads		min.	N (kgf) Load	max.	min.	N (kgf) Load	max.	min.	N (kgf) Load	max.		Type	M (Coarse thread)	* * *	PJL
1.1	10 (15)	10	15	0.9	0.49 (0.05)	1.0 (0.1)	0.78 (0.08)	2.9 (0.3)	2.2 (0.2)	4.5 (0.5)				3	**	1.5	1.5	1.5
1.1	15 (20)	15	20	0.9	0.29 (0.03)	1.0 (0.1)	0.78 (0.08)	2.9 (0.3)	1.8 (0.2)	4.5 (0.5)				3	**	3	3	3
1.6	15 (24)	15	24	1.3	1.0 (0.1)	2.0 (0.2)	2.9 (0.3)	8.8 (0.9)	5.2 (0.5)	13 (1.3)				4	**	2	2	2
1.6	24	24	24	1.3	0.59 (0.06)	2.0 (0.2)	2.0 (0.2)	8.8 (0.9)	5.2 (0.5)	13 (1.3)				4	**	4	4	4
2.0	20 (27)	20	27	1.5	2.0 (0.2)	9.8 (1.0)	4.9 (0.5)	19.6 (2.0)	9.1 (0.9)	24.5 (2.5)				5	**	3	3	3
2.0	27 (39)	27	39	1.5	2.0 (0.2)	9.8 (1.0)	2.9 (0.3)	19.6 (2.0)	8.8 (0.9)	24.8 (2.5)				5	**	5	5	5
2.5	25 (30)	25	30	2	5.9 (0.6)	9.8 (1.0)	7.8 (0.8)	29.4 (3.0)	14.2 (1.4)	39.5 (4.0)				6	**	3	3	3
2.5	30 (36)	30	36	2	2.0 (0.2)	9.8 (1.0)	4.9 (0.5)	29.4 (3.0)	14.1 (1.4)	39.4 (4.0)				6	**	5	5	5
2.5	30	39	—	2	1.4 (0.14)	9.8 (1.0)	5.0 (0.5)	28.0 (3.0)	—	—				6	**	10	10	10
3.1	25 (27)	25	27	2.5	5.9 (0.6)	9.8 (1.0)	14.7 (1.5)	29.4 (3.0)	35.3 (3.6)	41.2 (4.2)				8	**	3	3	3
3.1	27 (30)	27	35	2.5	2.9 (0.3)	9.8 (1.0)	7.8 (0.8)	29.4 (3.0)	14.7 (1.5)	41.2 (4.2)				8	**	5	5	5
3.1	30	43	—	2.5	3.0 (0.3)	9.8 (1.0)	7.0 (0.7)	28.8 (3.0)	—	—				8	**	10	10	10
3.8	30	30	35	3	5.9 (0.6)	14.7 (1.5)	8.8 (0.9)	49.0 (5.0)	15.7 (1.6)	62.8 (6.4)				10	**	5	5	5
3.8	30	43	53	3	2.9 (0.3)	14.7 (1.5)	7.8 (0.8)	49.0 (5.0)	12.7 (1.3)	62.8 (6.4)				10	**	10	10	10
3.8	30	58	—	3	2.9 (0.3)	14.7 (1.5)	6.2 (0.6)	48.7 (5.0)	—	—				10	**	15	15	15
5.5	30 (35)	30	43	4	5.9 (0.6)	14.7 (1.5)	6.2 (0.6)	48.7 (5.0)	37.2 (3.8)	98.1 (10.0)				12	**	5	5	5
5.5	35	43	58	4	2.9 (0.3)	19.6 (2.0)	7.8 (0.8)	49.0 (5.0)	14.7 (1.5)	98.1 (10.0)				12	**	10	10	10
5.5	35	51	78	4	2.9 (0.3)	19.6 (2.0)	4.9 (0.5)	49.0 (5.0)	14.9 (1.5)	98.1 (10.0)				12	**	15	15	15
5.5	35	78	—	4	3.5 (0.3)	19.6 (2.0)	6.9 (0.7)	49.0 (5.0)	—	—				12	**	20	20	20
8	35	60	60	5	5.9 (0.6)	39.2 (4.0)	12.7 (1.3)	78.5 (8.0)	23.5 (2.4)	147.2 (15.0)				16	**	10	10	10
8	35	60	70	5	3.9 (0.4)	39.2 (4.0)	12.7 (1.3)	78.5 (8.0)	21.6 (2.2)	147.2 (15.0)				16	**	15	15	15
8	35	85	90	5	4.9 (0.5)	39.2 (4.0)	9.8 (1.0)	78.5 (8.0)	12.7 (1.3)	147.2 (15.0)				16	**	20	20	20
8	35	125	125	5	2.9 (0.3)	39.2 (4.0)	6.9 (0.7)	78.5 (8.0)	19.6 (2.0)	147.2 (15.0)				16	**	30	30	30
8	35	125	—	5	4.9 (0.5)	39.2 (4.0)	6.9 (0.7)	78.5 (8.0)	—	—				16	**	40	40	40
8	35	155	—	5	19.6 (2.0)	49.0 (5.0)	29.4 (3.0)	78.5 (8.0)	—	—				16	**	50	50	50
8	35	159	—	5	2.9 (0.3)	49.0 (5.0)	3.9 (0.4)	78.5 (8.0)	—	—				16	**	60	60	60
8	35	185	—	5	3.4 (0.35)	49.0 (5.0)	5.5 (0.56)	78.5 (8.0)	—	—				16	**	70	70	70
8	35	185	—	5	19.6 (2.0)	49.0 (5.0)	29.4 (3.0)	93.2 (9.5)	—	—				16	**	80	80	80
10	45	60	80	6	12.7 (1.3)	78.5 (8.0)	24.5 (2.5)	147.1 (15.0)	12.7 (1.3)	245.3 (25.0)				20	*	15	15	15
10	45	72	—	6	11.7 (1.2)	78.5 (8.0)	22.6 (2.3)	147.1 (15.0)	—	—				20	*	20	20	20
10	45	96	—	6	11.7 (1.2)	78.5 (8.0)	22.6 (2.3)	147.1 (15.0)	—	—				20	*	30	30	30
10	45	120	—	6	11.7 (1.2)	78.5 (8.0)	22.6 (2.3)	147.1 (15.0)	—	—				20	*	40	40	40
10	45	60	—	10	19.6 (2.0)	98.1 (10.0)	44.1 (4.5)	196.1 (20.0)	—	—				20	*	7	7	7
10	45	60	84	10	19.6 (2.0)	98.1 (10.0)	47.1 (4.8)	215.7 (22.0)	24.5 (2.5)	314.0 (32.0)				24	*	15	15	15
10	45	75	—	10	17.7 (1.8)	98.1 (10.0)	44.1 (4.5)	215.7 (22.0)	—	—				24	*	20	20	20
10	45	100	—	10	17.7 (1.8)	98.1 (10.0)	44.1 (4.5)	215.7 (22.0)	—	—				24	*	30	30	30
10	45	124	—	10	17.7 (1.8)	98.1 (10.0)	44.1 (4.5)	215.7 (22.0)	—	—				24	*	40	40	40
14	45	66	—	14	27.5 (2.8)	117.7 (12.0)	44.1 (4.5)	274.6 (28.0)	—	—				30	*	15	15	15
14	45	78	—	14	27.5 (2.8)	117.7 (12.0)	53.0 (5.4)	274.6 (28.0)	—	—				30	*	20	20	20
14	45	100	—	14	27.5 (2.8)	117.7 (12.0)	45.1 (4.6)	274.6 (28.0)	—	—				30	*	30	30	30
14	45	123	—	14	27.5 (2.8)	117.7 (12.0)	47.1 (4.8)	274.6 (28.0)	—	—				30	*	40	40	40

⚠ Values in parentheses for ℓ dimension are for extremely heavy load.

[kgf] = N × 0.101972



Catalog No.
PJL12-5
NPJH3-1.5



• Printed in Red • Printed in Blue
SGP Stock **3** Days

Quantity discount rate

Quantity	1~19	20~49	50~99	100~200
Rate	—	5%	10%	15%

⚠ For area out of Singapore, please refer to Pi.

Wrenches for spring plungers

PJG	M	Catalog No.	Base unit price	
			1~9 pieces	10~19 pieces
RoHS	5-6	PJG1		
	8-10	PJG2		
		PJG2A (For plungers with flanges)		
	12	PJG3		
	16	PJG4		
	20-24	PJG5		
	30	PJG6		



Catalog No.
PJG1



3 Days

⚠ For area out of Singapore, please refer to Pi.



Spring plunger M3-M4 (Flat head screwdriver)



Spring plunger M5~M30 (Special wrench PJG)



Stocks Availability Subjected to Prior Sales.