

# SLIDE LOCKS

# BALL PLUNGERS

—PLAIN TYPE / HEAD TYPE—

Ⓜ Non JIS material definition is listed on P.1359 - 1360

**RoHS** **SLLK**

①② **M**: SUJ2  
**H**: 58HRC~  
Operating temperature limit 80°C

Load (N)		ST	L	L <sub>1</sub>	a	b	c	d	Bolt size	Tap N	W	W <sub>1</sub>	R	Part Number Type D	P (Spring)
P1 [min.]	P2 [max.]														
22.5	28.6	1.6	15	3.3	5	2.5	6	3.2	M3	M4	8	4	1	<b>SLLK</b>	C(SWC8—15)
62.0	78.8														F(SWF8—15)
36.7	62.9	2	20	4.5	6	3.5	7.5	4.3	M4	M5	10	5	1.1		F(SWF10—15)
64.1	110														L(SWL10—15)

**Order** Part Number — **P**  
**SLLK20** — **L**

**Days to Ship** **Stock**  
Ⓜ Stock availability depends on subsidiary. P.45

**Price** **Quantity discount rate** P.45

Quantity	1~9	10~19	20~29	30~50
Rate	—	5%	10%	15%

Ⓜ To be quoted on price & lead time above Max. Q'ty.

**Features** This stopper has been developed for a heavy slide core.

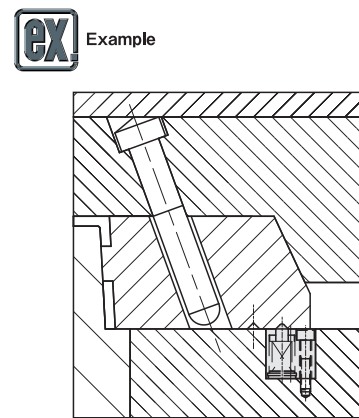
- Prevention of damage to the slide core
- A face contact type plunger is used, reducing the face pressure. The resulting structure prevents the core structure from being easily damaged.
- Heavy slides can be locked.

**Precautions**

Note that too strong lock load may cause the seizure to the angular pin and the angular cam.

Examples of Countermeasures are as follows:

- Increase the rigidity of the angular pin and angular cam. (Increase the diameter. Reduce the overall length.)
- Reduce the sliding friction. (Chamfering, lubrication)
- Change to a low-load type slide lock.



**Plain type** **RoHS** **BSZP** (Stainless steel for heavy load)

Main body **M** SUS304 (equivalent) Ball **M** SUS440C **H** 55HRC~ Spring **M** SUS631J1 Spacer **M** SUS304 Possible temperature of use -30°C ~ 260°C

d	S	L	$\ell$	a	Load (N)		Part Number	
					min.	max.	Type	D
3.0	0.8	10	2.2	1.0	4.9	19.6	<b>BSZP</b>	5
					9.8	29.4		6
4.0	1.0	13	3.7	1.5	12.7	39.2		8
5.0	1.2				2.0	18.6		49.0
7.0	1.8	17	4.7	3.0	19.6	58.8	12	

Ⓜ Load values "min." indicate an initial load, and "max.", a load when the ball is fully sunk. kgf=N×0.101972

**ex** Example

**Characteristics**  
Since it requires no tapping, the process would be simpler.

**Notes**

- Measure the L dimension and adjust the counterbore depth of installation hole.
- Installation should be done by inserting into the hole and attach with adhesive. (Do not press-fit because caulking section will be deformed and cause operation failure.)

**Head type** **BSJT** (Stainless steel for light load)

Main body **M** SUS305 (equivalent) Ball **M** Bearing steel (SUJ equivalent) **H** 55HRC~ Spring **M** SUS301 Possible temperature of use -30°C ~ 250°C

d	S	L	L <sub>1</sub>	D <sub>1</sub>	D <sub>1</sub> tolerance	Load (N)		Part Number	
						min.	max.	Type	D
3	0.9	5	1	4.6	±0.1	2.0	5.0	<b>BSJT</b>	4
4	1.0	6	1	5.6		4.0	7.0		5
5	1.5	7	1	6.5	±0.2	6.0	12.0		6
6.5	1.8	9	1	8.5		6.0	12.0		8

Ⓜ Load values "min." indicate an initial load, and "max.", a load when the ball is fully sunk. kgf=N×0.101972

**Order** Part Number **BSZP10** **BSJT6**

**Days to Ship** **Stock**  
Ⓜ Stock availability depends on subsidiary. P.45

**Price** **Quantity discount rate** P.45

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

Ⓜ To be quoted on price & lead time above Max. Q'ty.

