Ball Plungers

Economy / Standard

Features: By omitting heat treating, wrench slot and thread locking treatment, overwhelmingly low price is achieved.



Type	Bo	dy	Ba	all	Spring	Spacer	Operating		
туре	Material Surface Treatment		Material Hardness		Material Material		Temperature		
Light Load BPU Heavy Load BPM Extra Heavy Load BPQ	SCM435	Trivalent Chromate	SUJ2	55HRC~	SWP-B	SUS304	-30~80°C		
<u>Sp</u>	acer			L	_oad	•)Values be	elow are not guaranteed values but experimental val	
d \		_ l	_		min.	max.	_	М	Breaking Torque (N·cr
			_	ı	\sim	<u> </u>		3	98
						11/Q1		5	226
>	m	ML-43	- #			_	8	520 1726	
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Part Number	er						Light	Load	Heavy	Load	Extra He		
Type M (Coarse)		d	S	L	l	В	Loa	d (N)	Load	d (N)	Load (N)		Unit Price
Туре	(Coarse)				1		min.	max.	min.	max.	min.	max.	
	3	1.5	0.5	7	1	1.5	1	2	1.5	2.9	2.2	5	
	4	2.5	5	9	2.4	2	2	4.9	3.9	9.8	2.5	12.5	
BPU	5	2	0.8	12	2	2.5	2.9	9.8	4.9	19.6	11.2	24.1	
	6	3		13	2.5	3	4.9	14.7	9.8	29.4	17.7	33.4	
BPM	8	4	1	15	2.5	4	6.9	19.6	12.7	39.2	21.4	45.3	
BPQ	10	5	1.2	16	3	5	8.8	24.5	18.6	49	23.5	58.7	
	12	7.1	1.8	20	3	6	9.8	29.4	19.6	58.8	24.1	62.3	
	16	9.5	2.5	25	3	8	15.7	49	29.4	98	43.6	116	
	20	11.9	4.5	40	6	10	53.9	98	78.4	147.6	84.6	196.6	

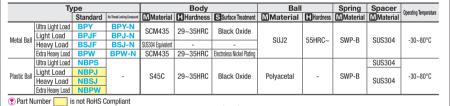
Thas no Slit for a wrench on the tip. It can be installed only by using a hex socket. Min. load is the initial load, and max. load is the one when the tip is fully compressed.

Part Number	er	Unit Price	(Reference)
Type	M (Coarse)	1 ~ 4 pack(s).	Price per Unit
	3		
DAOK DDU	4		
PACK-BPU (Light Load)	5		
	6		

- PACK-BPU is sold by the package.
- For package sales, minimum order is 1 pack.
 - 100 pcs./package
- For orders larger than indicated quantity, please request a quotation.

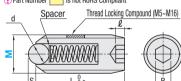
BPJF, BSJF: BPJ, BSJ (Identical Standard Products mentioned in Press Catalog) are also available.







RoHS 10





- Thread Locking Treatment is not provided on M2, M3 and M4 of Standard
- Thread Locking Treatment is where anaerobic thread locking compound in micro capsules is used to retain the threads. Once parts have been loosened, adhesion is lost. Use an anaerobic thread locking compound when reassembling.
- The thread locking is most effective by leaving the parts for 72 hours of more in 25°C. It should be noted if the parts are left for short period of time and in low temperature, the thread locking compound will be less-effective.

Part Number				Metal Ball Plastic Ball						Ultra Light Load		Light Load		Heavy Load		Extra Heavy Load		Unit Price		
	T N		٦,	s		s	L	l	B	Load (N)		Load (N)		Load (N)		Load (N)		Metal	Plastic	
	Туре	(Coarse)	u	3	u	٠				min.	max.	min.	max.	min.	max.	min.	max.	Ball	Ball Ball	
		2	1	0.2	-	-	5	1	0.9	-	-	0.7	1.4	1.2	2	-	-			
		* 3	1.5	0.5	-	-	7	1	1.5	0.3	0.64	1	2	1.5	2.9	2.2	5			
(Metal Ball)		** 4	2.5	5 2.4 0.8 3.2	2.4		9	9	1.5	2	0.6	1.6	2	4.9	3.9	9.8	2.5	12.5		
BPY (* only)	NBPS (*only)	** 5	3		3.2	0.8	0.8 12	12	2	2.5	1	3.12	2.9	9.8	4.9	19.6	11.2	24.1		
BPJF	NBPJ (*only)	** 6	3]	3.2		13	2.5	3	1.6	4.85	4.9	14.7	9.8	29.4	17.7	33.4			
BSJF	NBSJ (*only)	** 8	4	1	4	1.0	15	2.5	4	2.4	6.36	6.9	19.6	12.7	39.2	21.4	45.3			
BPW (* only)	NBPW (*only)	**10	5	1.2	4.8	1.2	16	3	5	3	8.1	8.8	24.5	18.6	49	23.5	58.7			
(-)/	- (- 3)	**12	7.1	1.8	7.1	1.8	20	3	6	3.5	9.68	9.8	29.4	19.6	58.8	24.1	62.3			
		**16	9.5	2.5	9.5	2.5	25	3	8	5.7	15.8	15.7	49	29.4	98	43.6	116			

📆 M2, M3 and M4 have no slits for a wrench on the tip. Has no Slit for a wrench on the tip. It can be installed only by using a hex socket. 🐧 Min. load is the initial load, and max. load is the one when the tip is fully compressed kgf=Nx0.101972

No Thread Locking Compound

Part Number							Ultra Liç	ht Load	Light	Load	Heavy	Load	Extra He	avy Load	
Туре	M	d	S	L	l	В	Load (N)		Load (N)		Load (N)		Load (N)		Unit Price
Type	(Coarse)						min.	max.	min.	max.	min.	max.	min.	max.	
(Metal Ball)	5	3	0.8	12	2	2.5	1	3.12	2.9	9.8	4.9	19.6	11.2	24.1	
BPY-N	6	3	0.0	13	2.5	3	1.6	4.85	4.9	14.7	9.8	29.4	17.7	33.4	
BPJ-N	8	4	1	15	2.5	4	2.4	6.36	6.9	19.6	12.7	39.2	21.4	45.3	
BSJ-N	10	5	1.2	16	3	5	3	8.1	8.8	24.5	18.6	49	23.5	58.7	
	12	7	1.8	20	3	6	3.5	9.68	9.8	29.4	19.6	58.8	24.1	62.3	
BPW-N	16	9.5	2.5	25	3	8	5.7	15.8	15.7	49	29.4	98	43.6	116	

Min. load is the initial load, and max. load is the one when the tip is fully compressed.



kgf=Nx0.101972