

Micro Spring Plungers

Standard / Short / Set Screw

Standard

Load Category	Type			Body	Pin	Spring	Operating
	Flat	Spherical	Taper R	Material	Material	Material	Temperature
Light Load	MPFL	MPJL	MPTL	SUS303	SUS304	SUS304	-30~140°C
Heavy Load	MPFH	MPJH	-				

Tapered R Portion

Flat

Spherical

Taper R

Part Number	Type	Dh7	S	d	D1	L	C	R	Light Load		Heavy Load		Unit Price
									N	max.	N	max.	
(Flat) MPFL (Spherical) MPFH MPJL MPJH (Taper R) MPTL	1.5	1.5	0.5	2	13	0.05	0.15	0.15	0.49	0.98	0.93	1.86	
									min.	max.	min.	max.	
	2	1.5	1	2.5	16	0.1	0.3	0.3	0.49	0.98	1.96	3.92	
									min.	max.	min.	max.	
	3	3	2	3.5	16	0.15	0.5	0.5	0.49	1.47	2.45	3.92	
									min.	max.	min.	max.	
	4	3	3	4.5	15	0.2	1	1	0.49	1.47	2.26	3.73	
									min.	max.	min.	max.	
	5	4	3	5.5	20	0.3	1.5	1.5	0.59	2.06	2.45	5.3	
									min.	max.	min.	max.	
	8	4	4	8	17	0.3	1.5	1.5	0.69	3.92	2.94	6.47	
									min.	max.	min.	max.	
12	4	4	12	32	0.3	1.5	1.5	0.64	1.96	3.73	6.96		
								min.	max.	min.	max.		
									0.78	3.82	3.04	7.06	
									0.83	5.79	2.75	7.06	

⚠ Recommended Diameter of Mounting Hole : Dh7
 ⚠ Use adhesive to prevent loosening.
kgf=Nx0.101972

Ordering Example Part Number - S
 Example MPJL2 - 1.5

Features: Shorter in dimensions by 30~50% compared to the conventional products. Can be used in the limited space.

Short

Load Category	Type			Body	Pin	Spring	Operating
	Flat	Spherical	Taper R	Material	Material	Material	Temperature
Light Load	MPFS	MPJS	-	SUS303	SUS304	SUS304	-30~140°C

Flat

Spherical

Part Number	Type	Dh7	S	d	D1	L	C	Light Load (N)		Unit Price
								min.	max.	
(Flat) MPFS (Spherical) MPJS	1.5	1.5	0.5	2	9.5	0.05	0.05	0.49	0.98	
								min.	max.	
	2	1.5	1	2.5	8	0.1	0.1	0.49	0.98	
								min.	max.	
	3	3	2	3.5	10	0.15	0.15	0.49	1.47	
min.								max.		
4	3	3	4.5	10	0.2	0.2	0.59	1.47		
							min.	max.		
5	4	3	5.5	11.5	0.3	0.3	0.64	1.96		
							min.	max.		

⚠ Recommended Diameter of Mounting Hole : Dh7
 ⚠ Use adhesive to prevent loosening.

Ordering Example Part Number - S
 Example MPFS4 - 3

Features: Slits are applied for side-mounting with a set screw.

Set Screw

Load Category	Type	Body	Pin	Spring	Operating
	Material	Material	Material	Material	Temperature
Light Load	MPFLT	SUS303	SUS304	SUS304	-30~140°C
Heavy Load	MPFHT				

Ordering Example Part Number - S
 Example MPFLT3 - 6

Flat

⚠ The D dimension tolerance of the set screw part is D_{0.2}^{0.1}

Part Number	Type	Dh7	S	d	D1	L	ℓ	F	G	C	Light Load		Heavy Load		Unit Price	
											N	max.	N	max.		
(Flat) MPFLT MPFHT	1.5	1.5	0.5	2	17.5	2.5	0.5	1	1	0.05	0.49	0.98	0.93	1.86		
											min.	max.	min.	max.		
	2	1.5	1	2.5	20.5	2.5	0.5	1	1	0.1	0.1	0.49	0.98	1.96	3.92	
												min.	max.	min.	max.	
	3	3	2	3.5	20.5	2.5	0.5	1	1	0.15	0.15	0.49	1.47	2.45	3.92	
												min.	max.	min.	max.	
	4	3	3	4.5	25.5	3.5	0.8	1	1	0.2	0.2	0.49	1.47	2.26	3.73	
												min.	max.	min.	max.	
	5	4	3	5.5	25.5	3.5	0.8	1	1	0.3	0.3	0.59	1.47	3.43	5.3	
												min.	max.	min.	max.	
	8	4	4	8	37.5	3.5	0.8	1	1	0.3	0.3	0.49	2.06	2.45	5.3	
												min.	max.	min.	max.	
12	4	4	12	29.5	3.5	0.8	1	1	0.3	0.3	0.69	3.92	2.94	6.47		
											min.	max.	min.	max.		
											0.64	1.96	3.73	6.96		
											0.78	3.82	3.04	7.06		
											0.83	5.79	2.75	7.06		

⚠ Recommended Diameter of Mounting Hole : Dh7
 ⚠ Use adhesive to prevent loosening.
kgf=Nx0.101972