

TSOP - TSO series

Anti-rotation spring systems



Materials

Spring	Stainless steel
Tubing	Anodized aluminum
Slider	Nickel-plated steel

Use

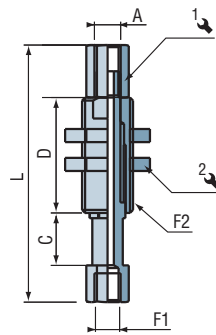
The TSOP and TSO series spring systems are anti-rotation spring systems. They are used for horizontal handling of parts at different levels. The anti-rotation function ensures that objects are always gripped in the same position.

The TSOP range is designed for applications requiring very precise handling.

- The hexagonal rod prevents the suction pad from rotating.
- Internal spring.

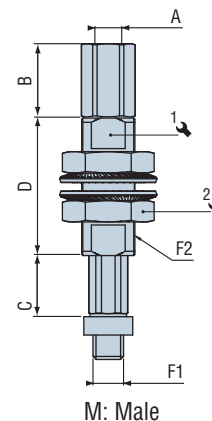
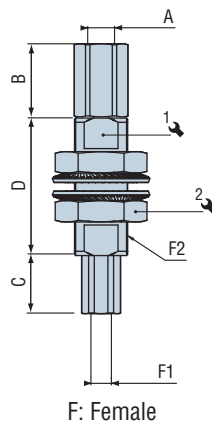
Characteristics - TSOP series

References	A (mm)	F1 (mm)	F2	C (stroke) (mm)	D (mm)	L (mm)	1 (mm)	2 (mm)	Spring force (N/mm)	Force at rest (N)	(g)
TSOP 107	M5	M5	1/8 G	7	18	42	7	14	0.68	1.3	20
TSOP 110	M5	M5	1/8 G	10	22	49	7	14	0.45	1.8	22
TSOP 120	M5	M5	1/8 G	20	39	73.5	7	14	0.24	1.7	33
TSOP 140	M5	M5	1/8 G	40	64	118.5	7	14	0.13	1.6	50



Characteristics - TSO series

References	A (mm)	F1 (mm)	F2	C (stroke) (mm)	B (mm)	D (mm)	L (mm)	1 (mm)	2 (mm)	Spring force (N/mm)	Force at rest (N)	(g)
TSO1 15 F	M5	M5	M12x1	15	10.5	27	53.5	12	15	0.111	1.664	18
TSO2 25 M	1/8G	1/8G	M16x1	25	15	40	90	15	19	0.2	4.007	41
TSO2 25 F	1/8G	1/8G	M16x1	25	15	40	82	15	19	0.2	4.007	39
TSO3 35 M	1/8G	1/4G	M20x1.5	35	18	60	123	18	24	0.25	5.49	93
TSO3 35 F	1/8G	1/4G	M20x1.5	35	18	60	123	18	24	0.25	5.49	88



For all orders, please specify: The reference in the characteristics table