

# TS 11

## Level Compensators

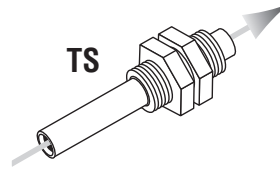


The TS 11 series compensated spring systems are recommended for horizontal handling of objects at different levels. The spring function also ensures that the gripping points are applied on the same plane when gripping with multiple suction cups.

- Protected spring.

### Materials

**Spring** Stainless steel  
**Tubing** Zinc-plated steel  
**Slider** Brass



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### Characteristics

References	A	F1	F2	C	D	L	1	2	k (N/mm)	Frep (N)	(g)
TS11 7	M5-F	M5-F	G1/8"-M	7	19	43	7	14	0.68	1.3	20
TS11 10	M5-F	M5-F	G1/8"-M	10	22	49	7	14	0.45	1.8	22
TS11 20	M5-F	M5-F	G1/8"-M	20	39	76	7	14	0.24	1.7	33
TS11 40	M5-F	M5-F	G1/8"-M	40	64	121	7	14	0.13	1.6	50

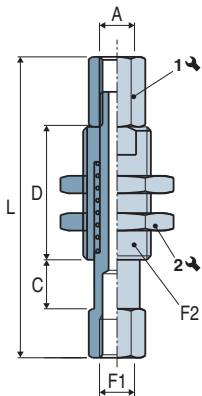
Note: All dimensions are in mm

C = Stroke

k = Spring stiffness

Frep = Force at rest

### TS11



### Suction cup mounting

The TS 11 series spring system can be fitted on all suction cups in group 1 (VP, VSA, VS Ø 5 to 25 mm) for IM21 and on suction cups in series VPG 5 to 20.



Please specify the part n° e.g.: TS1140  
 See part n° table above.