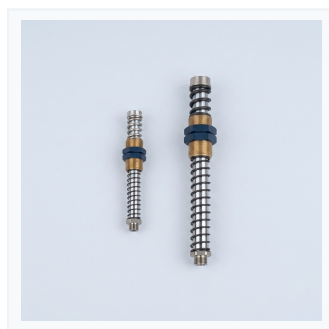


INDUSTRIAL VACUUM AUTOMATION

Level Compensators & Mounting

Spring compensators, ball joints, flexible joints and cup adapters.



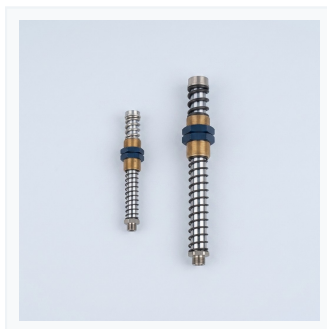
4 Level Compensators & Mounting

Spring compensators, ball joints, flexible joints and cup adapters.

The link between the cup and the tool plate absorbs what the robot path cannot: height tolerance, surface angle and impact energy. Getting it wrong shows up as cup wear, marked workpieces and noise long before it shows up as a dropped load.

IN THIS CHAPTER: 12 PRODUCT FAMILIES

4.1	Level Compensators	7
	Sprung stroke between flange and cup. Compact, retractive, light-duty and double-spring heavy-duty variants.	
4.2	Mounting Parts & Joints	5
	Ball joints and flexible joints that let the cup find the surface angle, plus locking fittings and thread adapters.	



Level Compensators

Sprung stroke between flange and cup. Compact, retractive, light-duty and double-spring heavy-duty variants.



PSPD

Double - Spring Heavy - Duty Level Compensator

■ Suitable for various working conditions

WORKING TEMPERATURE	WEIGHT	SUCTION CUP CONNECTION
0~80 °C	181 g (PSPD-E25(R)G2M-M20)	G2M, G3M, G4M

TECHNICAL DATA

Pretightening force	8.6 N (PSPD-E25(R)G2M-M20)
Elastic force	16.8 N (PSPD-E25(R)G2M-M20)
Vertical load	2400 N (PSPD-E25(R)G2M-M20)
Working temperature	0~80 °C
Weight	181 g (PSPD-E25(R)G2M-M20)
Buffer type	External spring (PSPD-E)
Buffer stroke	25 mm (PSPD-E25)
Rotary type	Vertical rotating (Nil) / Vertical non-rotating (R)
Suction cup connection	G2M, G3M, G4M
Mounting thread	M20, M30, M20×1.5



PSPE **Compact Lightweight Level Compensator**

■ Ensure the accurate positioning of the workpieces

WEIGHT	CONNECTION THREAD
22 g	M5M

TECHNICAL DATA

Model
PSPE-I10(R)M5M-M10
Height (H)
51.5 mm
Length (L)
23 mm
Stroke (Y)
10 mm
Weight
22 g
Spring Force F1
1.0 N
Spring Force F2
3.0 N
Material
Stainless Steel (guide rod), Oilless wear-resistant bushing
Buffer Style
Built-in spring
Connection Thread
M5M



PSPF Compact Level Compensator

8 VARIANTS

■ Especially suitable for the electronic industry

WEIGHT	CONNECTION THREAD
26 to 256 g	M5×0.8 / M8×1.25

VARIANTS: 8 SIZES

MODEL	HEIGHT (H)	CONNECTION THREAD	STROKE (Y)	WEIGHT
PSPF-E4B6M5F-M11	30 mm	M5×0.8	4 mm	26 g
PSPF-E10B6M5F-M11	42 mm	M5×0.8	10 mm	29.5 g
PSPF-E6B6M5F-M14	40 mm	M5×0.8	6 mm	53 g
PSPF-E15B6M5F-M14	57 mm	M5×0.8	15 mm	64.5 g
PSPF-E6B6M8F-M14	40 mm	M8×1.25	6 mm	55 g
PSPF-E15B6M8F-M14	57 mm	M8×1.25	15 mm	65 g
PSPF-E10LR1M10M-M16	94 mm	M8×1.25	10 mm	213 g
PSPF-E30LR1M10M-M16	134 mm	M8×1.25	30 mm	256 g



PSPH Heavy-Duty Level Compensator

■ Reduce product wear, improve the lifetime of the products and reduce the noise

A specification table is not published for this family. Confirm dimensions, performance data and ordering details before purchase.



PSPL

Retractive Level Compensator

4 VARIANTS

- Suitable for fast handling in small space

TECHNICAL DATA

Locking Torque2.5 ~ 3.5 N·M

VARIANTS: 4 SIZES

MODEL	HEIGHT (H)	LENGTH (L)	STROKE (Y)	SPRING FORCE AT 0 STROKES (F1)	SPRING FORCE AT MAX STROKE (F2)
PSPL-I10(R)M5F-M10	51 mm	31.8 mm	10 mm	1.0 N	1.4 N
PSPL-I15(R)M5F-M10	61 mm	36.8 mm	15 mm	1.0 N	1.4 N
PSPL-I20(R)M5F-M10	71 mm	41.8 mm	20 mm	1.0 N	1.4 N
PSPL-I3M5F-M10	16.5 mm	9 mm	3 mm	0.7 N	1.0 N



PSPS Retractive Level Compensator

- Avoid pollution and external mechanical force, flexible contact

MATERIAL

Stainless steel

VACUUM PORT CONNECTION OPTIONS

M5F, M5M, D5, I8, I10

TECHNICAL DATA

Material

Stainless steel

Structure

Retractive structure design

Guide Sleeve

Built-in resin bushing

Applications

Electronic industry, handling light and small workpieces, handling workpieces with height difference, dust-free working condition

Buffer Styles

Built-in spring

Buffer Stroke Options

3, 6, 10, 15, 20

Vacuum Port Connection Options

M5F, M5M, D5, I8, I10

Mounting Thread Options

M5×0.8 female thread, M5×0.8 male thread, M8×1, M10×1

Dimensions (mm)

Various sizes including PSPS-I3D5-M8, PSPS-I10D5-M8, PSPS-I10M5M-M8, PSPS-I10M5F-M10, PSPS-I15M5F-M10, PSPS-I20M5F-M10

Spring Force at 0 Stroke

F1 varies by model

Spring Force at Max Stroke

F2 varies by model

Locking Torque

2.5 ~ 3.5 N.M



PSPT

Universal Level Compensator

4 VARIANTS

■ Improve the lifetime of the products and reduce the noise of the products

TECHNICAL DATA

Length (L)	44 mm	Spring Force at Max Stroke (F2)	5.5 N
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VARIANTS: 4 SIZES

MODEL	HEIGHT (H)	STROKE (Y)	WEIGHT
PSPT-I10 G1M-M16	76 mm	10 mm	71 g
PSPT-I20 G1M-M16	86 mm	20 mm	89 g
PSPT-I30 G1M-M16	96 mm	30 mm	102 g
PSPT-I50 G1M-M16	147 mm	50 mm	135 g

Reference price NT\$250

4.2

Mounting Parts & Joints

Ball joints and flexible joints that let the cup find the surface angle, plus locking fittings and thread adapters.



PJB

Universal Ball Joint

ORDERING OPTIONS

- M10M M10×1.25 male thread G4M - G1/2 male thread
- S With an external sealing suction cup



PJE Universal Flexible Joint

ORDERING OPTIONS

G4M G1/2 male thread	G2M G1/4 male thread	G2F G1/4 female thread
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PJF Universal Locking Mounting Fitting

A specification table is not published for this family. Confirm dimensions, performance data and ordering details before purchase.



PJH Universal Flexible Joint

- The PJH Series consists of universal mounting parts with a flexible joint design
- These parts are made of high-strength aluminum alloy and are suitable for workpieces with irregular surfaces, allowing for height and angle adjustments

TECHNICAL DATA

Material	High-strength aluminum alloy	Structure	Ball clamp structure
Mounting Specification	M5 or M6 fixed screw	Connection Thread	G1/4 or G3/8
Length of Connecting Rod	80mm, 100mm, 140mm, 200mm	Setting Angle	15°
Weight	216g to 385g depending on model		



PJT

Universal Mounting Adapter

ORDERING OPTIONS

M8M M8×1.25 male thread	M5M M5×0.8 male thread
G1M G1/8 male thread	M8M M8×1.25 male thread
G2M G1/4 male thread	G1M G1/8 male thread
G3M G3/8 male thread	G2M G1/4 male thread
M5F M5×0.8 female thread	G3M G3/8 male thread
M8F M8×1.25 female thread	G4M G1/2 male thread
G1F G1/8 female thread	M5F M5×0.8 female thread
G2F G1/4 female thread	M8F M8×1.25 female thread
G3F G3/8 female thread	G1F G1/8 female thread

Two independent columns of the ordering key. Any code in one column may be combined with any code in the other; the rows carry no pairing.

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