PSPH Series

Heavy-duty Level Compensator

UNIVERSAL HEAVY LOAD

Features

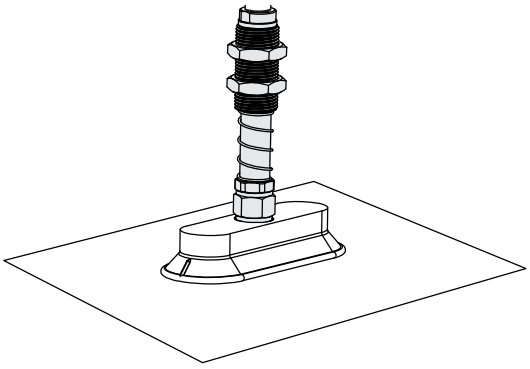
◇ Oilless, wear-resistant bushing is built in the guide sleeve
◇ Heavy duty external buffer spring
◇ Non-rotating type can be selected
◇ Various buffer stroke specifications are available
◇ Suitable for heavy duty working condition

Advantages

◇ Reduce product wear, improve the lifetime of the products and reduce the noise
◇ Suitable for the workpieces with uneven surface and working conditions which need height compensation
◇ Suitable for precise positioning of oval suction cup
◇ Suitable for various working conditions

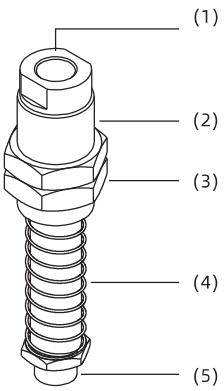
Applications

◇ Suitable for handling workpieces with height difference
◇ Suitable for working condition which needs shock absorption when handling objects
◇ Suitable for working condition that is with short working period and fast handling
◇ Non-rotating level compensator is suitable for oval suction cup
◇ Especially suitable for handling in automotive industry



Structure

◇ (1) Vacuum generator connection
◇ (2) Guide sleeve
◇ (3) Mounting nut
◇ (4) Guide rod
◇ (5) Suction cup connection



PSPH Series

Heavy-duty Level Compensator

How to order

PSPH - E 25 R G3M - M30
① ② ③ ④ ⑤ ⑥

① Series	② Buffer type	③ Buffer stroke	④ Rotary type	⑤ Suction cup connection	⑥ Mounting thread
PSPH	E - External spring	25	Nil - Vertical rotating	G2M - G1/4 male thread	M20 - M20×1.5
		50	R - Vertical non-rotating	G3M - G3/8 male thread	M30 - M30×1.5
		75		G4M - G1/2 male thread	
		90			

Selection

Model/Connection thread G2M	RG2M	G3M	RG3M	G4M	RG4M
PSPH-E25G2M-M20	PSPH-E25RG2M-M20	PSPH-E25G3M-M30	PSPH-E25RG3M-M30	PSPH-E25G4M-M30	PSPH-E25RG4M-M30
PSPH-E50G2M-M20	PSPH-E50RG2M-M20	PSPH-E50G3M-M30	PSPH-E50RG3M-M30	PSPH-E50G4M-M30	PSPH-E50RG4M-M30
PSPH-E75G2M-M20	PSPH-E75RG2M-M20	PSPH-E75G3M-M30	PSPH-E75RG3M-M30	PSPH-E75G4M-M30	PSPH-E75RG4M-M30
PSPH-E90G2M-M20	PSPH-E90RG2M-M20	PSPH-E90G3M-M30	PSPH-E90RG3M-M30	PSPH-E90G4M-M30	PSPH-E90RG4M-M30

Technical parameters

Model	Pretightening force(1) N	Elastic force(2) N	Vertical load(3) N	Working temperature ℃	Weight g
PSPH-E25(R)G2M-M20	7.5	15.8	2,400	0~80	148
PSPH-E50(R)G2M-M20	14.4	20	2,400	0~80	174
PSPH-E75(R)G2M-M20	6	16	2,400	0~80	198
PSPH-E90(R)G2M-M20	6	15.7	1,500	0~80	210
PSPH-E25(R)G3M-M30	19.4	73	4,800	0~80	408
PSPH-E50(R)G3M-M30	24.7	78.5	4,800	0~80	483
PSPH-E75(R)G3M-M30	39	79.6	4,800	0~80	561
PSPH-E90(R)G3M-M30	26.4	74.5	4,800	0~80	580
PSPH-E25(R)G4M-M30	19.4	73	4,800	0~80	408
PSPH-E50(R)G4M-M30	24.7	78.5	4,800	0~80	483
PSPH-E75(R)G4M-M30	39	79.6	4,800	0~80	561
PSPH-E90(R)G4M-M30	26.4	74.5	4,800	0~80	580

◇ Note: 1. Pretightening force is spring elastic force when spring is compressed in nature state

2. Elastic force is spring elastic force when level compensator is compressed in 50% stroke, it is suggested that the actual working compressed stroke of level compensator should not exceed 50% of its max. compressed stroke

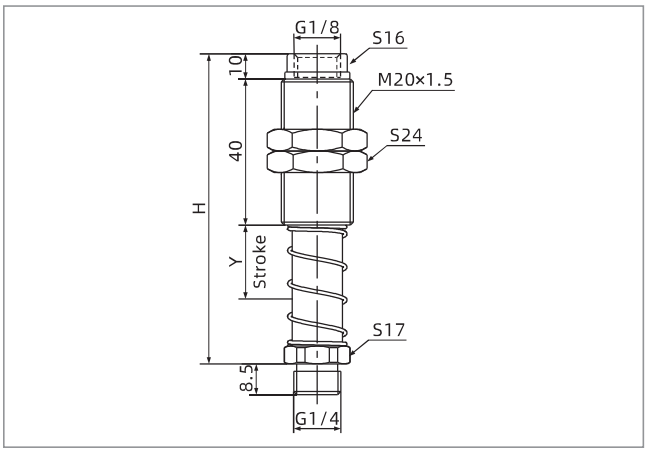
3. Vertical load refers to the max. vertical tension that the level compensator can bear in static state

4. When the level compensator is installed horizontally, the workpiece will produce gravity perpendicular to the direction of the level compenasator, If the gravity is larger than the horizontal load range, the spring may get stuck

PSPH Series

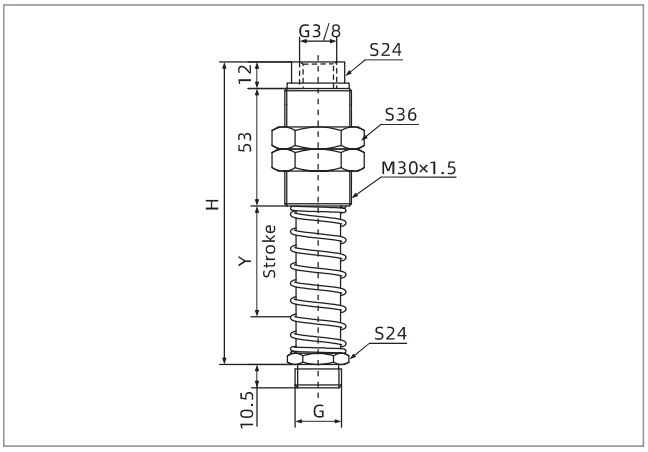
Heavy-duty Level Compensator

Dimensions(mm)



PSPH-E□(R)G2M-M20

Model/Size	H	Y
PSPH-E25(R)G2M-M20	86	25
PSPH-E50(R)G2M-M20	114.5	50
PSPH-E75(R)G2M-M20	145	75
PSPH-E90(R)G2M-M20	160	90



PSPH-E□(R)G3M-M30 PSPH-E□(R)G4M-M30

Model/Size	H	G	Y
PSPH-E25(R)G3M-M30	105.5	G3/8	25
PSPH-E50(R)G3M-M30	135.5	G3/8	50
PSPH-E75(R)G3M-M30	176.5	G3/8	75
PSPH-E90(R)G3M-M30	188.5	G3/8	90
PSPH-E25(R)G4M-M30	105.5	G1/2	25
PSPH-E50(R)G4M-M30	135.5	G1/2	50
PSPH-E75(R)G4M-M30	176.5	G1/2	75
PSPH-E90(R)G4M-M30	188.5	G1/2	90