

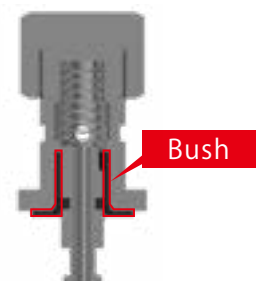
Vacuum Pad Holder **VPLFG**

Spring type, Direct mount Low dust emission holder



- Space-saving holder that allows piping with a manifold block.
- No need for individual piping, reducing the setup time.
- Vacuum Pad Holder with low dust emission.

Built-in special bush provides low sliding and low dust emission.



Characteristics

3 mm and 6 mm are available for stroke option.

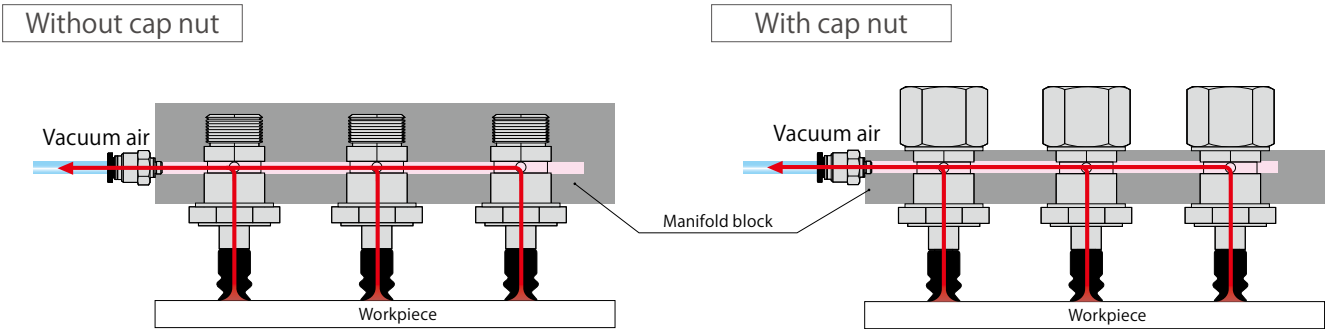
Optional cap nut is also available.

The holder body can be fixed with a manifold block by tightening with the cap nut.

Non-rotating shaft prevents workpiece misalignment during conveyance.

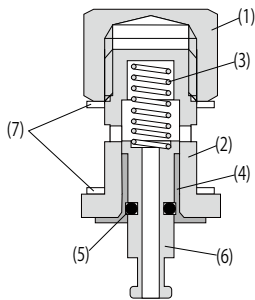
Non-rotating shaft can be selected depending on the application.

How to fix



* Manifold block is available on special order. Contact PISCO sales office in your region.

Sectional drawing



No.	Parts	Material
(1)	Cap nut	Stainless steel
(2)	Holder body	Stainless steel
(3)	Spring	SUS304
(4)	Bush	Engineering plastic
(5)	O-ring	Silicone
(6)	Shaft	Stainless steel
(7)	Gasket	POM

Tightening torque

Thread size	Tightening torque
M8 × 0.75	1 to 2 N · m

Model Designation of Pad Holder only (Example)



(1) Vacuum Pad

(2) Holder type : Direct mount, Spring type, Low dust emission holder

(3) Connection configuration code

Code			T8					K15	
Pad connection type			Mount type (Direct connection)					Mount type (Direct connection)	
Applicable pad dia. (mm)			φ6	φ8	φ10	φ15	φ20	φ10	φ15
Pad type	Standard	General	✓	✓	—	—	—	✓	✓
		Deep	—	—	—	—	—	—	✓
	Bellows		✓	✓	—	—	—	✓	✓
	Multi-bellows		✓	✓	—	—	—	✓	—
	Skidproof		—	—	—	—	—	✓	—
	Metal Detectable		—	—	—	—	—	✓	✓
	Ultrathin		—	✓	✓	✓	✓	—	—

(4) Stroke

Code	-3	-6
Stroke (mm)	3	6

(5) Cap nut

Optional

Code	No code	-C
	Without cap nut	With cap nut
Cap nut		

*Cap nut is not sold separately.

(6) Non-rotating shaft

Code	No code	-R
	Non-rotating shaft	Rotating shaft
Non-rotating shaft		

Model Designation of Vacuum Pad + Pad Holder



(1) Vacuum Pad

(2) Holder type : Direct mount, Spring type, Low dust emission holder

(3) Holder type

Code		6	8	10	15	20
Applicable pad dia. (mm)		φ6	φ8	φ10	φ15	φ20
Pad type	Standard	General	✓	✓	✓	
		Deep			✓	
	Bellows		✓	✓	✓	K15
	Multi-bellows		✓	✓		
	Skidproof			✓		
	Metal Detectable			✓	✓	
Ultrathin			✓	✓	✓	T8

(4) Stroke

Code	-3	-6
Stroke (mm)	3	6

(5) Pad type

Code	R	A	B	W	K	BE	BD	P
Pad type	Standard General	Standard Deep	Bellows	Multi-bellows	Skidproof	Metal Detectable		Ultrathin
						Bumps and ribs	Bumps and no ribs	

(6) Pad material

Code		N	S	U	F	SE	SE-R69	NE	G	HN	EP	FS	NH	YS2	YS4	MSF3	MSF5	MSS3	MSS5	
Rubber material		Nitrile	Silicone	Urethane	Fluoro	Conductive Silicone	Static dissipative Silicone	Conductive NBR (Low resistance)	Food Sanit. Act compliant NBR	HNBR	EPDM	Fluoro-silicone	Oil proof NBR	Extra soft silicone Hardness 20°	Hardness 40°	Metal detectable silicone				
Pad color																				
Material code marking		None	None	None	None	SE	SR	NE	None	HN	EP	None	None	None	None	SF	SF	SS	SS	
Pad type	Standard	General	✓	✓	✓	✓	✓	✓	✓	✓	✓	—	—	—	—	—	—	—	—	
		Deep	✓	✓	✓	✓	✓	—	✓	✓	✓	✓	—	—	—	—	—	—	—	
	Bellows		✓	✓	✓	✓	✓	✓	—	—	✓	✓	—	—	*	✓	—	—	—	—
	Multi-bellows		✓	✓	✓	✓	—	—	✓	✓	✓	✓	—	—	*	*	—	—	—	—
	Skidproof		—	✓	✓	✓	—	✓	✓	—	—	—	—	✓	—	—	—	—	—	—
	Metal detectable (with bumps)	Ribs No ribs	—	—	—	—	—	—	—	—	—	—	—	—	—	—	✓	✓	✓	✓
Ultrathin		✓	✓	✓	✓	—	✓	✓	—	—	—	✓	—	—	—	—	—	—	—	

* Available only when Fuloro-coating option is selected in "(7) Surface treatment".

(7) Surface treatment

Optional

Code			No code	-NF	-SF	-DL	-ER	-FG
Surface treatment			None	Fiber surface		DLC. coating	Reformed surface	Fluoro-coating
				Nylon fiber	Silk fiber			
			—					
Applicable pad material			—	Silicone (S) Fluoro (F)	Silicone (S) Fluoro (F)	Silicone (S) Fluoro (F) Conductive silicone (SE)	Nitrile (N) Conductive NBR (NE)	Silicone (S) Conductive silicone (SE) Extra soft silicone (YS2,YS4)
Pad type	Standard	General	—	φ15 only	φ15 only	All sizes	All sizes	All sizes
		Deep	—	All sizes	All sizes	All sizes	All sizes	All sizes
	Skidproof		—	—	—	—	—	—
	Bellows		—	φ15 only	φ15 only	All sizes	All sizes	All sizes
	Multi-bellows		—	—	—	φ10 only	All sizes	All sizes
	Metal Detectable		—	—	—	—	—	—
	Ultrathin		—	—	—	All sizes	All sizes	All sizes

* Some surface treatments are not available depending on pad size.

(8) Mark-free resin attachment material (Bellows type only)

Optional

Code	No code	-QK	-QM	-QKE
Resin material	—	PEEK	POM	Conductive PEEK (Volume resistance: 10^3 to $10^5 \Omega \cdot \text{cm}$)
	—			



*1. Selectable for Bellows type pad φ10mm and φ15mm

*2. Resin attachment cannot be installed when selecting surface treatment.

*3. Resin attachment cannot be installed when selecting Extra soft silicone for pad material.

(9) Cap nut

Optional

Code	No code	-C
Cap nut	Without cap nut	With cap nut
		

* Cap nut is not sold separately.

(10) Non-rotating shaft

Code	No code	-R
Non-rotating shaft	Non-rotating shaft	Rotating shaft
		

Dimentional drawing (without cap nut)

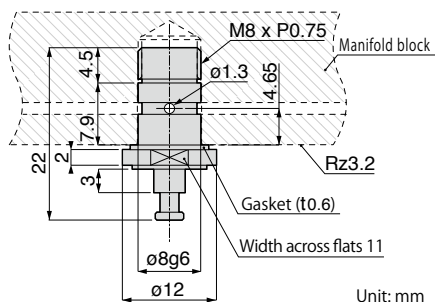


Connection configuration code: T8

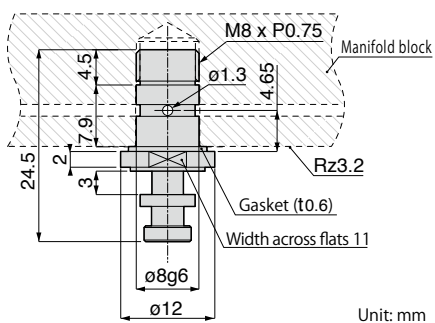


Connection configuration code: K15

VPLFG Spring type, Direct mount (Stroke: 3mm)

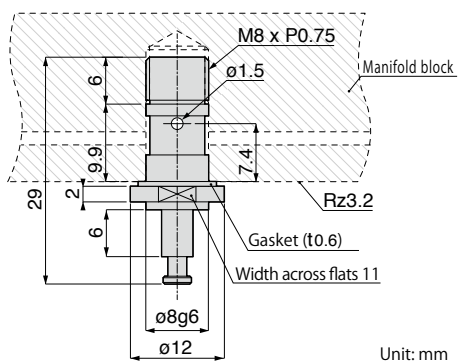


Model code	Spring force (N)	Weight (g)	Connection config. code
VPLFG-T8-3	2.2 to 3.4	5.4	T8
VPLFG-T8-3-R	2.2 to 3.4	5.5	

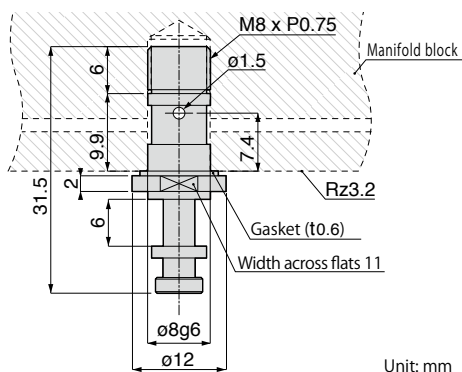


Model code	Spring force (N)	Weight (g)	Connection config. code
VPLFG-K15-3	2.2 to 3.4	6.3	K15
VPLFG-K15-3-R	2.2 to 3.4	6.4	

VPLFG Spring type, Direct mount (Stroke: 6mm)



Model code	Spring force (N)	Weight (g)	Connection config. code
VPLFG-T8-6	2.4 to 6.0	5.6	T8
VPLFG-T8-6-R	2.4 to 6.0	5.6	

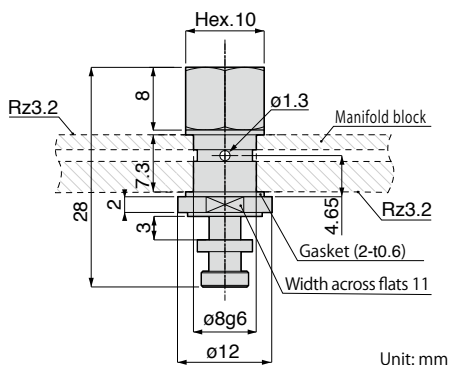


Model code	Spring force (N)	Weight (g)	Connection config. code
VPLFG-K15-6	2.4 to 6.0	6.6	K15
VPLFG-K15-6-R	2.4 to 6.0	6.7	

VPLFG Spring type, Direct mount (Stroke: 3mm)



Connection configuration code: K15



*The manifold block's thickness should be in the range of 8 to 10 mm.

*The manifold block's thickness should be in the range of 8 to 10 mm.

Technical drawing of a manifold block assembly. The drawing shows a cross-section of the assembly with the following dimensions and tolerances:

- Hex. 10 (Hexagonal top)
- 10 (Dimension from hexagonal top to the center of the manifold block)
- $\phi 1.5$ (Dimension of the central hole in the manifold block)
- Manifold block (Label for the central component)
- 7.4 (Dimension from the center of the manifold block to the center of the gasket)
- Rz3.2 (Surface texture tolerance for the manifold block)
- 35.5 (Total height of the assembly)
- 2 (Dimension from the bottom of the assembly to the center of the manifold block)
- 6 (Dimension from the bottom of the assembly to the center of the gasket)
- Gasket (2-10.6) (Label for the gasket component)
- Width across flats 11 (Dimension across the flats of the gasket)
- $\phi 8g6$ (Dimension of the hole in the gasket)
- $\phi 12$ (Dimension of the hole in the manifold block)

Unit: mm

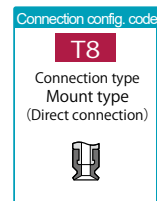
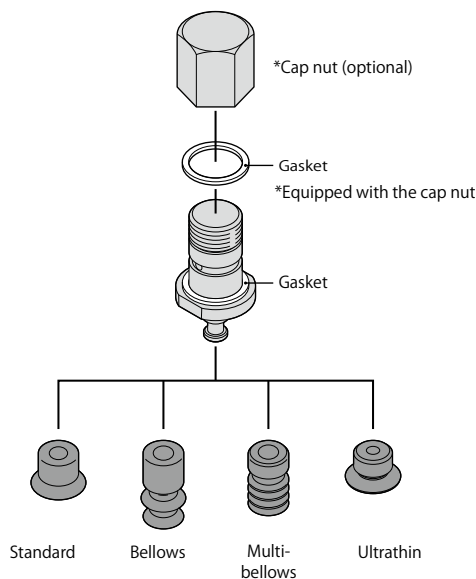
*The manifold block's thickness should be in the range of 10 to 12 mm.

*The manifold block's thickness should be in the range of 10 to 12 mm.

Vacuum Pad Configuration

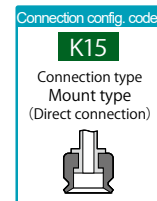
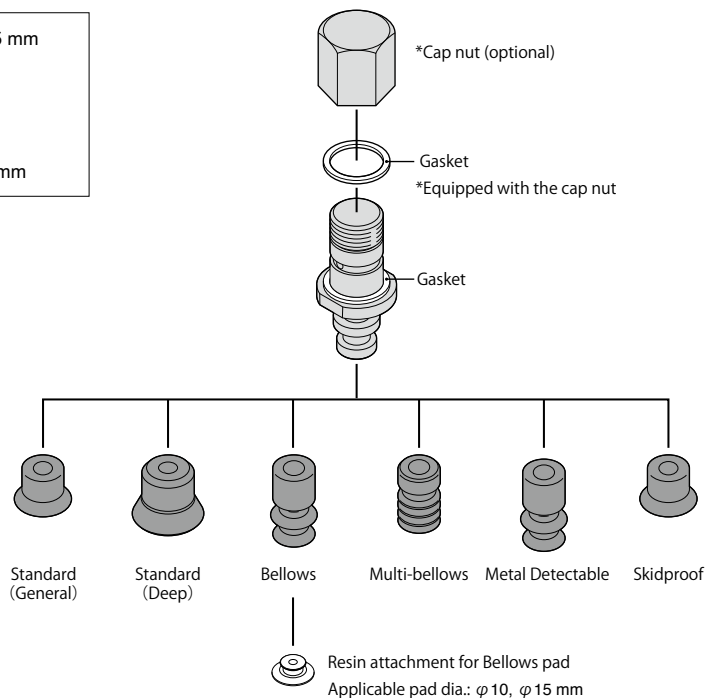
Pad dia: $\varnothing$ 6, $\varnothing$ 8, $\varnothing$ 10, $\varnothing$ 15, $\varnothing$ 20 mm

Standard (General) pad dia.: $\varnothing$ 6, $\varnothing$ 8 mm
 Bellows pad dia.: $\varnothing$ 6, $\varnothing$ 8 mm
 Multi-bellows pad dia.: $\varnothing$ 6, $\varnothing$ 8 mm
 Ultrathin pad dia.: $\varnothing$ 8, $\varnothing$ 10, $\varnothing$ 15, $\varnothing$ 20 mm



Pad dia.: $\varnothing$ 10, $\varnothing$ 15 mm

Standard (General) pad dia.: $\varnothing$ 10, $\varnothing$ 15 mm
 Standard (Deep) pad dia.: $\varnothing$ 15 mm
 Bellows pad dia.: $\varnothing$ 10, $\varnothing$ 15 mm
 Multi-bellows pad dia.: $\varnothing$ 10 mm
 Skidproof pad dia.: $\varnothing$ 10 mm
 Metal Detectable pad dia.: $\varnothing$ 10, $\varnothing$ 15 mm



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