Special for Glass Industry

- Vacuum Generator
- Suction Cups
- Mounting Parts

Vacuum Solutions Supplier

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AIRBEST

Make Smart Go Together

Products Special for Glass Industry

Overview

Vacuum Generators

01

AGE Series

Mechanical Energy-saving Vacuum Generator

◇ Max.vacuum level: -92kPa

◇ Max.vacuum flow: 41NL/min

GLASS METAL SHEET

04

AMC Series RoHS

Multistage Vacuum Generator

◇ Max.vacuum level: -95kPa

◇ Max.vacuum flow: 1,650NL/min

METAL SHEET PACKAGING WOOD COMPOSITE MATERIAL

10

AMD Series

Large Flow Vacuum Generator

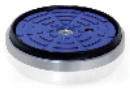
◇ Max.vacuum level: -95kPa

◇ Max.vacuum flow: 1,410NL/min

UNIVERSAL

Suction Cups

14



SFK Series RoHS

Flat Suction Cup Special for Rough Surface Objects

◇ Diameter: 110-250mm

◇ Material: E

WOOD METAL SHEET GLASS

17

SHT Series

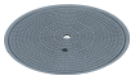
High Temperature Suction Cup

◇ Diameter: 35-90mm

◇ Material: --

METAL SHEET GLASS

19



SFG Series RoHS

Flat Suction Cup for Glass Industry

◇ Diameter: 125-400mm

◇ Material: E HD

GLASS SLIPPING RESISTANCE HIGH SEALING

22

SFGT Series RoHS

Big Flat Suction Cup

◇ Diameter: 65-160mm

◇ Material: ws

METAL SHEET GLASS

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SF Series RoHS

Universal Flat Suction Cup

◇ Diameter: 15-300mm

◇ Material: N S WS CS

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Products Special for Glass Industry

Overview

Mounting Parts

30

PSPH Series RoHS

Heavy-duty Level Compensator

◇ Connection thread: G1/4
G3/8 G1/2

◇ Buffer stroke: 25~90mm

UNIVERSAL HEAVY LOAD

33

PSPD Series RoHS

Double Springs Heavy-duty Compensator

◇ Connection thread: G1/4
G3/8 G1/2

◇ Buffer stroke: 25~90mm

UNIVERSAL HEAVY LOAD

36

PJE Series

Universal Mounting Parts-Flexible Joint

◇ Vacuum connection thread:
G1/4 G1/2

◇ Max.deflection angle: 12°

UNIVERSAL

AGE Series

Mechanical Energy-saving Vacuum Generator


GLASS


METAL SHEET

Features

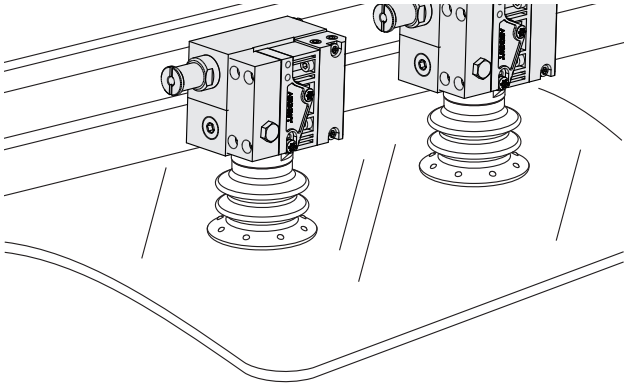
◇ Mechanical energy saving mode, the generator itself automatically saves energy after the vacuum level reaches the set value, and then the air supply stops
◇ Optional energy saving function can save up to 99% of the air consumption
◇ Can adapt to a variety of working conditions, can work in dust and water environment
◇ Internal blow valve allows rapid release of workpiece and maintain vacuum in sealed applications in the event of system or power failure
◇ Internal filter is equipped to protect the device from dust and particles

Advantages

◇ Energy-saving function is realized by the generator itself, electric control is not required
◇ Strong anti-pollution ability
◇ Energy-saving function, it can help customers to minimize the cost
◇ Two-stage generator, vacuum level can reach to -92kPa quickly

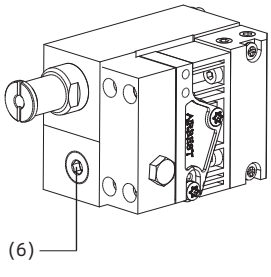
Applications

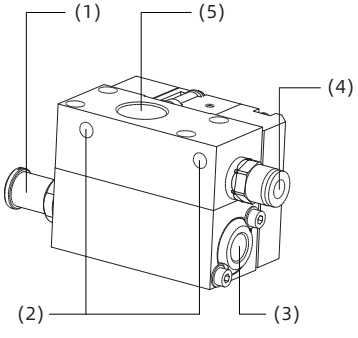
◇ Applicable to glass, metal sheet and other workpieces with good sealed surface
◇ Applicable to the occasions with water, dust and other places where the electric precision instrument can not work properly
◇ Suitable for glass grinding



Structure

◇ (1) Exhaust port
◇ (2) Mounting hole
◇ (3) Air supply port
◇ (4) Vacuum release port
◇ (5) Vacuum port
◇ (6) Vacuum detecting port





AGE Series

Mechanical Energy-saving Vacuum Generator

How to order

AGE - ES
① ②

① Series	② Control device
AGE	Nil - Default, without control device ES - Energy-saving system

Selection

Model/Control device Nil	ES
AGE	AGE-ES

Technical parameters

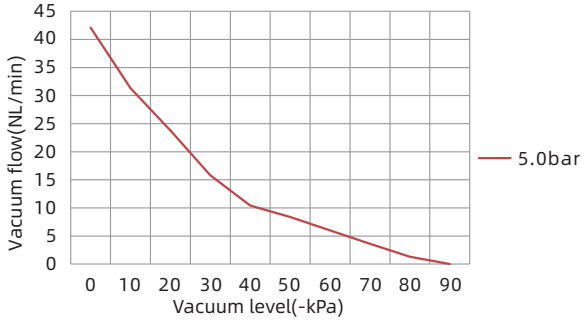
Model	Rated air supply pressure bar	Max.vacuum level -kPa	Max.vacuum flow NL/min	Noise level dB(A)	Weight g
AGE	5.0	92	41	68.5	177
AGE-ES	5.0	92	41	68.5	258

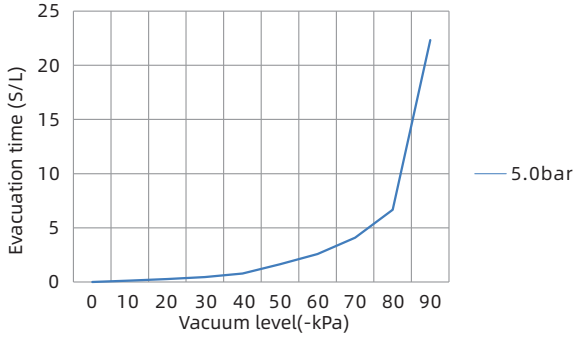
Vacuum flow(NL/min) at different vacuum levels(-kPa)

Model	Air supply pressure bar	Air consumption NL/min	0	10	20	30	40	50	60	70	80	90	Max. vacuum level -kPa
AGE	5.0	29	42.1	31.3	23.8	15.8	10.4	8.4	6.0	3.6	1.3	0	92

Evacuation time(s/L) to reach different vacuum levels(-kPa)

Model	Air supply pressure bar	Air consumption NL/min	10	20	30	40	50	60	70	80	90	Max. vacuum level -kPa
AGE	5.0	29	0.14	0.28	0.47	0.79	1.64	2.59	4.09	6.68	22.32	92

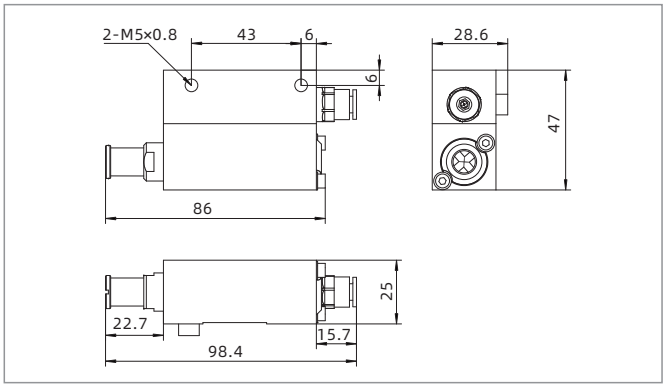




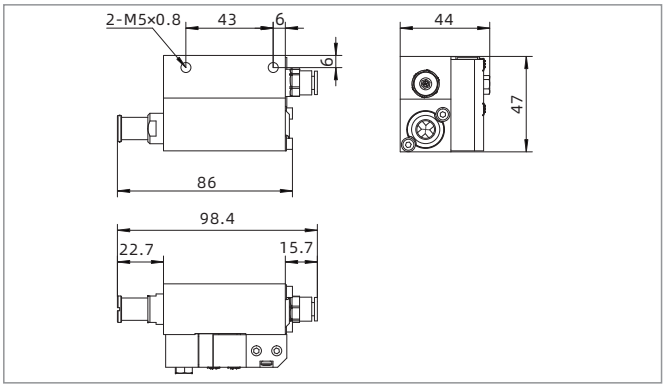
AGE Series

Mechanical Energy-saving Vacuum Generator

Dimensions(mm)

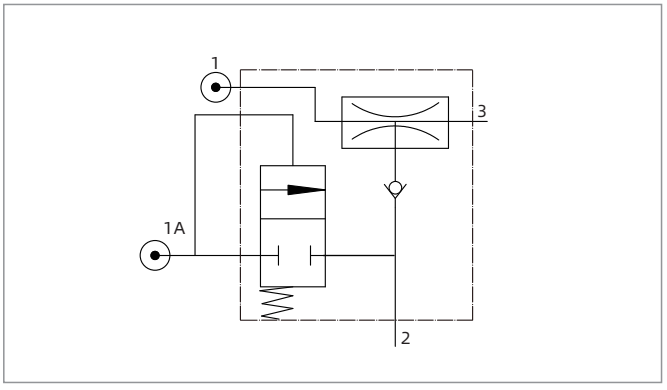


AGE

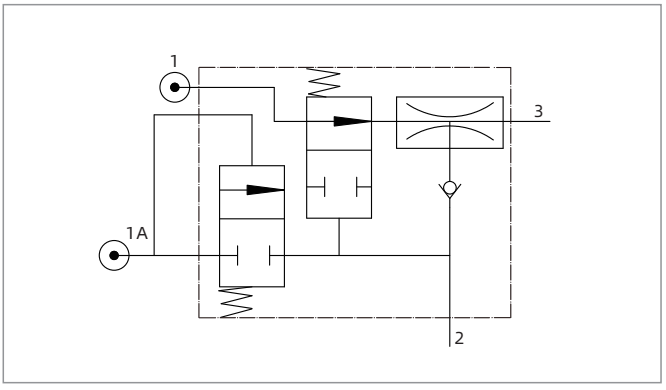


AGE-ES

Air circuit schematic diagram



AGE



AGE-ES

AMC Series

Multistage Vacuum Generator

METAL SHEET | PACKAGING | WOOD | COMPOSITE MATERIAL

RoHS

Features

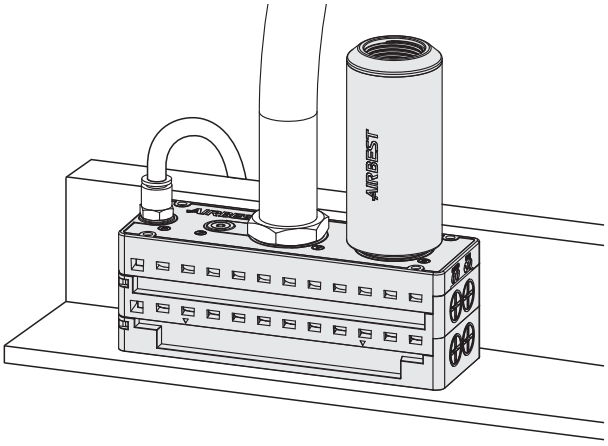
◇ High efficient and energy-saving multistage nozzle design
◇ Large vacuum flow
◇ Internal vacuum cartridges can be stacked assembly
◇ Various specifications of air supply port and vacuum port
◇ Energy-saving control device is optional

Advantages

◇ Quick evacuation in low vacuum level range, reduce cost and shorten working cycle
◇ Producing large vacuum flow to handle porous workpieces fast and safely
◇ It can meet different requirements of vacuum flow in different working conditions
◇ It can be connected with different threads
◇ It is energy-saving when handling airtight workpieces

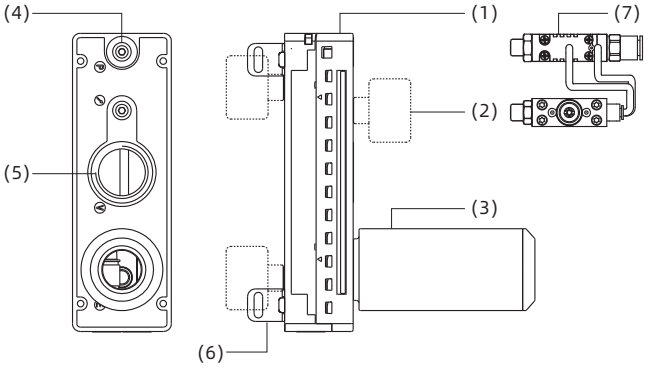
Applications

◇ The multistage vacuum generator is suitable for handling cartons, packaging materials and porous materials
◇ It is used in the working condition requiring large vacuum flow, fast evacuation speed and less air consumption



Structure

◇ (1) Main body
◇ (2) Vacuum gauge
◇ (3) Silencer
◇ (4) Air supply port
◇ (5) Vacuum port
◇ (6) L-type mounting bracket
◇ (7) ES energy saving system



AMC Series

Multistage Vacuum Generator

How to order

AMC 25 L - AA - V - ES
① ② ③ ④ ⑤ ⑥

① Series	② Specification	③ Performance	④ Connection plate	⑤ Non-return valve	⑥ Control device
AMC	25	H - High vacuum level (-95kPa)	AA	Nil - Default, without non-return valve	Nil - Default, Without control device
	50		BA		ES - Energy saving system
	75	L - Large vacuum flow (-75kPa)	CA	V - With non-return valve	
	100		DB		
	125		CC		
	150				

Connection plate specifications

Connection plate	Air supply port (1)	Vacuum port (2)	Exhaust port (3)	Applicable vacuum generator
AA	G1/8	G3/4	G1"	AMC25, 50
BA	NPSF1/8	G3/4	G1"	AMC25, 50
CA	G1/4	G3/4	G1"	AMC25, 50, 75, 100
DB	NPT1/4	NPT3/4	G1"	AMC25, 50, 75, 100
CC	G1/4	G1"	G1"	AMC25, 50, 75, 100, 125, 150

Selection - L (Large Vacuum flow type)

Model/ Specification	25	50	75	100	125	150
AMC□L-AA	AMC25L-AA	AMC50L-AA	-	-	-	-
AMC□L-AA-V	AMC25L-AA-V	AMC50L-AA-V	-	-	-	-
AMC□L-AA-V-ES	AMC25L-AA-V-ES	AMC50L-AA-V-ES	-	-	-	-
AMC□L-BA	AMC25L-BA	AMC50L-BA	-	-	-	-
AMC□L-BA-V	AMC25L-BA-V	AMC50L-BA-V	-	-	-	-
AMC□L-CA	AMC25L-CA	AMC50L-CA	AMC75L-CA	AMC100L-CA	-	-
AMC□L-CA-V	AMC25L-CA-V	AMC50L-CA-V	AMC75L-CA-V	AMC100L-CA-V	-	-
AMC□L-CA-V-ES	-	-	AMC75L-CA-V-ES	AMC100L-CA-V-ES	-	-
AMC□L-DB	AMC25L-DB	AMC50L-DB	AMC75L-DB	AMC100L-DB	-	-
AMC□L-DB-V	AMC25L-DB-V	AMC50L-DB-V	AMC75L-DB-V	AMC100L-DB-V	-	-
AMC□L-CC	AMC25L-CC	AMC50L-CC	AMC75L-CC	AMC100L-CC	AMC125L-CC	AMC150L-CC
AMC□L-CC-V	AMC25L-CC-V	AMC50L-CC-V	AMC75L-CC-V	AMC100L-CC-V	AMC125L-CC-V	AMC150L-CC-V
AMC□L-CC-V-ES	AMC25L-CC-V-ES	AMC50L-CC-V-ES	AMC75L-CC-V-ES	AMC100L-CC-V-ES	AMC125L-CC-V-ES	AMC150L-CC-V-ES

AMC Series

Multistage Vacuum Generator

Selection - H（High vacuum level type）

Model/ Specification	25	50	75	100	125	150
AMC□H-AA	AMC25H-AA	AMC50H-AA	-	-	-	-
AMC□H-AA-V	AMC25H-AA-V	AMC50H-AA-V	-	-	-	-
AMC□H-AA-V-ES	AMC25H-AA-V-ES	AMC50H-AA-V-ES	-	-	-	-
AMC□H-BA	AMC25H-BA	AMC50H-BA	-	-	-	-
AMC□H-BA-V	AMC25H-BA-V	AMC50H-BA-V	-	-	-	-
AMC□H-CA	AMC25H-CA	AMC50H-CA	AMC75H-CA	AMC100H-CA	-	-
AMC□H-CA-V	AMC25H-CA-V	AMC50H-CA-V	AMC75H-CA-V	AMC100H-CA-V	-	-
AMC□H-CA-V-ES	-	-	AMC75H-CA-V-ES	AMC100H-CA-V-ES	-	-
AMC□H-DB	AMC25H-DB	AMC50H-DB	AMC75H-DB	AMC100H-DB	-	-
AMC□H-DB-V	AMC25H-DB-V	AMC50H-DB-V	AMC75H-DB-V	AMC100H-DB-V	-	-
AMC□H-CC	AMC25H-CC	AMC50H-CC	AMC75H-CC	AMC100H-CC	AMC125H-CC	AMC150H-CC
AMC□H-CC-V	AMC25H-CC-V	AMC50H-CC-V	AMC75H-CC-V	AMC100H-CC-V	AMC125H-CC-V	AMC150H-CC-V
AMC□H-CC-V-ES	AMC25H-CC-V-ES	AMC50H-CC-V-ES	AMC75H-CC-V-ES	AMC100H-CC-V-ES	AMC125H-CC-V-ES	AMC150H-CC-V-ES

Technical parameters

Model	Rated air supply pressure bar	Max. vacuum level -kPa	Max. vacuum flow NL/min	Air consumption NL/min	Noise level dB(A)	Working temperature ℃	Weight g	Vacuum chamber volume cm^3	Recommended hose dia. mm	
									Air supply port P	Vacuum port V
AMC25L	6.0	75	360	130	63~68	-10~80	430	140	ϕ8	ϕ25
AMC50L	6.0	75	710	260	63~68	-10~80	435	140	ϕ8	ϕ25
AMC75L	6.0	75	1,050	390	63~68	-10~80	625	245	ϕ10	ϕ32
AMC100L	6.0	75	1,410	520	63~68	-10~80	630	245	ϕ10	ϕ32
AMC125L	6.0	75	1,500	650	63~68	-10~80	825	352	ϕ12	ϕ32
AMC150L	6.0	75	1,690	780	63~68	-10~80	830	352	ϕ12	ϕ32
AMC25H	5.0	95	354	135	63~68	-10~80	430	140	ϕ8	ϕ25
AMC50H	5.0	95	700	270	63~68	-10~80	435	140	ϕ8	ϕ25
AMC75H	5.0	95	980	405	63~68	-10~80	625	245	ϕ10	ϕ32
AMC100H	5.0	95	1,380	540	63~68	-10~80	630	245	ϕ10	ϕ32
AMC125H	5.0	95	1,480	675	63~68	-10~80	825	352	ϕ12	ϕ32
AMC150H	5.0	95	1,650	810	63~68	-10~80	830	352	ϕ12	ϕ32

Vacuum flow(NL/min) at different vacuum levels(-kPa)

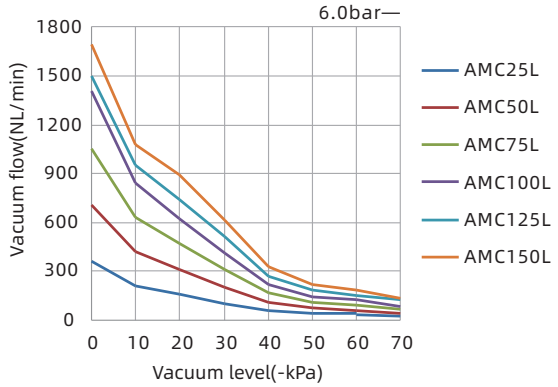
Model	Air supply pressure bar	Air consumption NL/min	0	10	20	30	40	50	60	70	Max. vacuum level -kPa
AMC25L	6.0	130	360	210	156	102	54	36	30	21	75
AMC50L	6.0	260	710	420	312	204	108	72	60	42	75
AMC75L	6.0	390	1,050	630	468	306	162	108	90	66	75
AMC100L	6.0	520	1,410	840	624	408	216	144	120	84	75
AMC125L	6.0	650	1,500	948	744	510	270	180	150	126	75
AMC150L	6.0	780	1,690	1,074	888	612	324	216	180	132	75

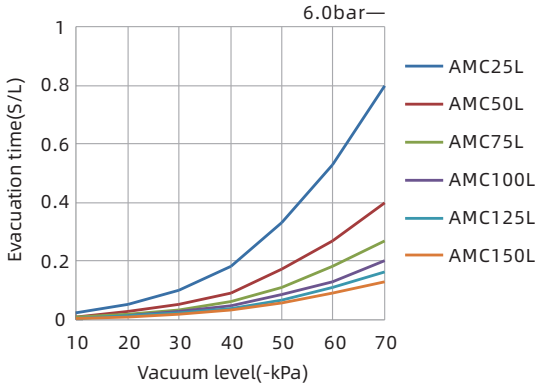
AMC Series

Multistage Vacuum Generator

Evacuation time(s/L) to reach different vacuum levels(-kPa)

Model	Air supply pressure bar	Air consumption NL/min	10	20	30	40	50	60	70	Max. vacuum level -kPa
AMC25L	6.0	130	0.020	0.050	0.100	0.180	0.330	0.530	0.800	75
AMC50L	6.0	260	0.010	0.025	0.050	0.090	0.170	0.270	0.400	75
AMC75L	6.0	390	0.007	0.017	0.033	0.060	0.110	0.180	0.270	75
AMC100L	6.0	520	0.005	0.013	0.025	0.045	0.083	0.130	0.200	75
AMC125L	6.0	650	0.005	0.012	0.022	0.036	0.066	0.110	0.160	75
AMC150L	6.0	780	0.004	0.010	0.018	0.030	0.055	0.090	0.130	75





Vacuum flow(NL/min) at different vacuum levels(-kPa)

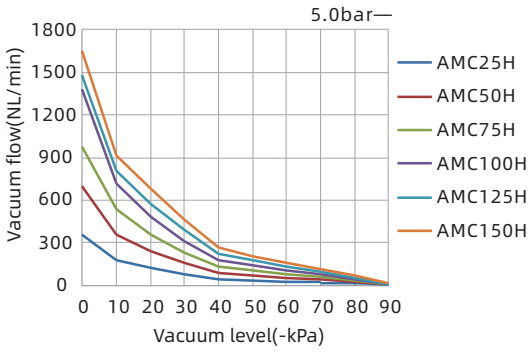
Model	Air supply pressure bar	Air consumption NL/min	0	10	20	30	40	50	60	70	80	90	Max. vacuum level -kPa
AMC25H	5.0	135	354	180	120	78	43.8	34.8	25.8	19.2	10.8	1.8	95
AMC50H	5.0	270	700	360	240	156	87.6	69.6	51.6	38.4	21.6	3.6	95
AMC75H	5.0	405	980	540	360	234	131.4	104.4	77.4	57.6	32.4	5.4	95
AMC100H	5.0	540	1,380	720	480	312	175.2	139.2	103.2	76.8	43.2	7.2	95
AMC125H	5.0	675	1,480	810	570	390	219.0	174.0	129.0	96.0	54.0	9.0	95
AMC150H	5.0	810	1,650	918	684	468	262.8	206.4	154.8	115.2	64.8	10.8	95

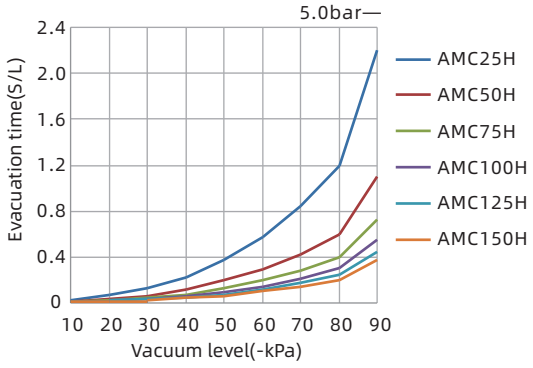
Evacuation time(s/L) to reach different vacuum levels(-kPa)

Model	Air supply pressure bar	Air consumption NL/min	10	20	30	40	50	60	70	80	90	Max. vacuum level -kPa
AMC25H	5.0	135	0.022	0.062	0.120	0.220	0.37	0.57	0.84	1.20	2.20	95
AMC50H	5.0	270	0.011	0.031	0.060	0.110	0.19	0.29	0.42	0.60	1.10	95
AMC75H	5.0	405	0.007	0.021	0.040	0.070	0.12	0.19	0.28	0.40	0.73	95
AMC100H	5.0	540	0.006	0.016	0.030	0.055	0.09	0.14	0.21	0.30	0.55	95
AMC125H	5.0	675	0.005	0.014	0.026	0.044	0.07	0.11	0.17	0.24	0.44	95
AMC150H	5.0	810	0.005	0.012	0.022	0.040	0.06	0.10	0.14	0.20	0.37	95

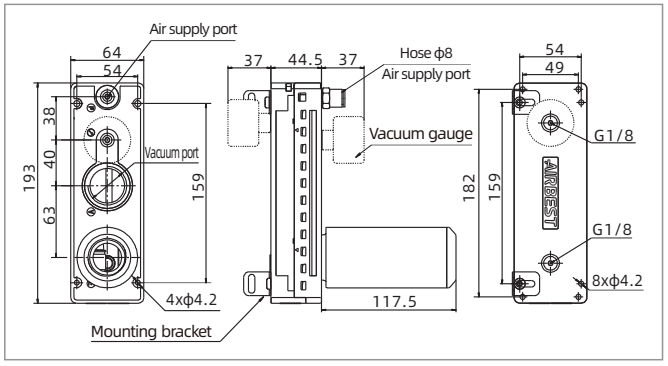
AMC Series

Multistage Vacuum Generator

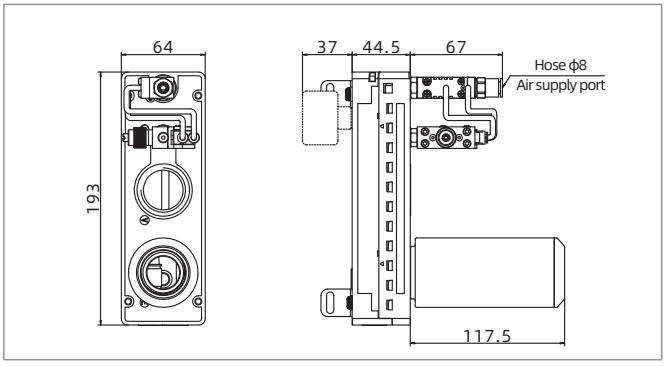




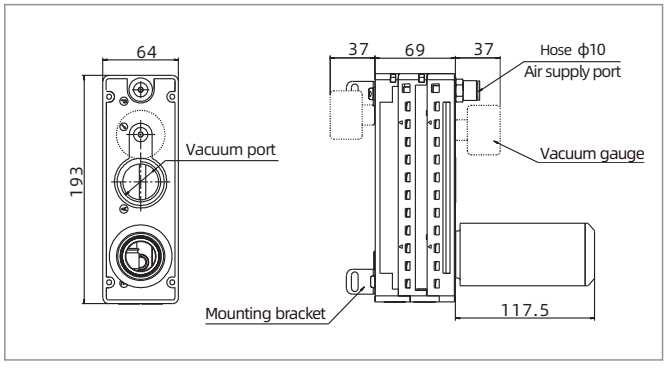
Dimensions(mm)



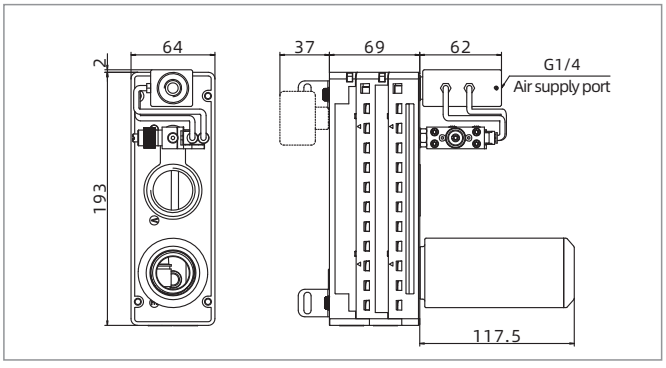
AMC25-50



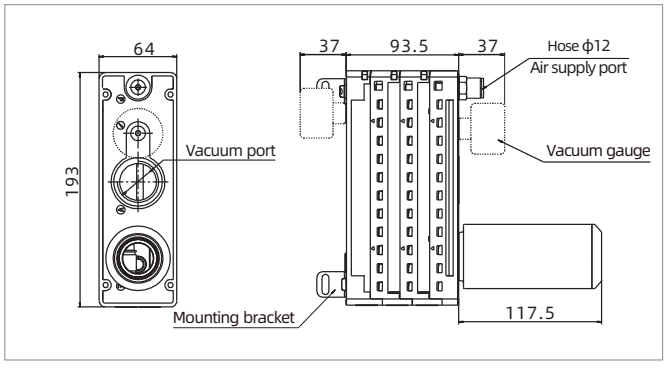
AMC25□-□-V-ES AMC50□-□-V-ES



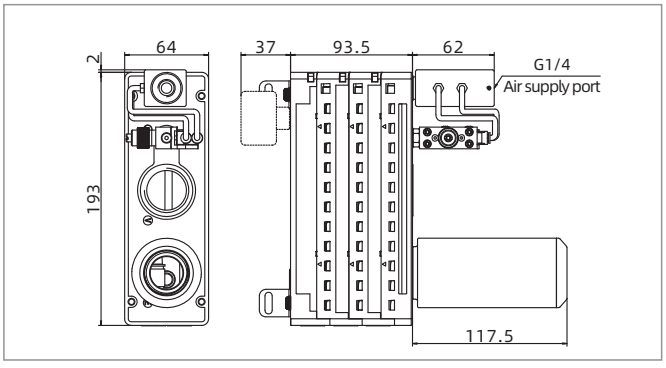
AMC75 -100



AMC75□-□-V-ES AMC100□-□-V-ES



AMC125-150

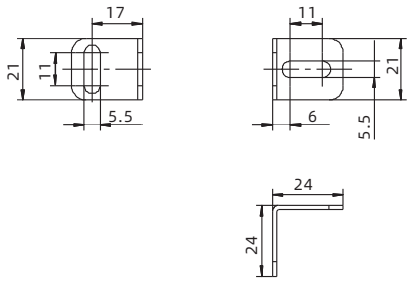


AMC125□-□-V-ES AMC150□-□-V-ES

AMC Series

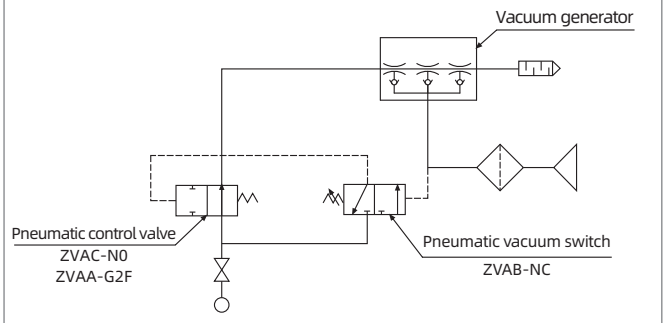
Multistage Vacuum Generator

Dimensions(mm)



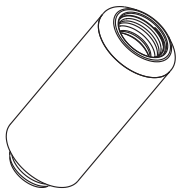
L type mounting bracket

Air circuit schematic diagram



ES Energy saving system

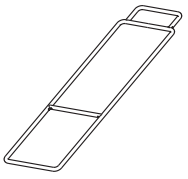
Accessory selection



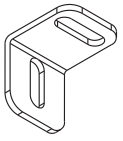
Silencer

Vacuum gauge

Mounting accessories



Sealing parts



L type mounting bracket

Mounting accessories

Item	Model	Remark
Silencer	ZSA-G8M	-
Vacuum gauge	ZPMR-V	-
Sealing ring	AMC50-R6	AMC25, 50/1 AMC75, 100/2 AMC125, 150/3
Mounting accessory kit	AMC50-R(2 brackets + 4 Screws + 1 ϕ8 one-touch fitting)	AMC25, 50-AA
Mounting accessory kit	AMC100-R(2 brackets+ 4 Screws + 1 ϕ10 one-touch fitting)	AMC25, 50, 75, 100-CA / AMC25, 50, 75, 100-CC
Mounting accessory kit	AMC150-R(2 brackets + 4 Screws + 1 ϕ12 one-touch fitting)	AMC125, 150-CC

◇ Note: The mounting accessory kit includes 2 L-type brackets and 4 screws for the connection plate BA and DB

AMD Series

Large Flow Vacuum Generator

UNIVERSAL

Features

◇ Built-in vacuum cartridge, greatly improve the energy consumption ratio

◇ Suitable connection specifications can be configured according to different vacuum flow requirements

◇ Various connection specifications can meet different requirements

Advantages

◇ Easy installation, easy maintenance, it can be replaced by users themselves

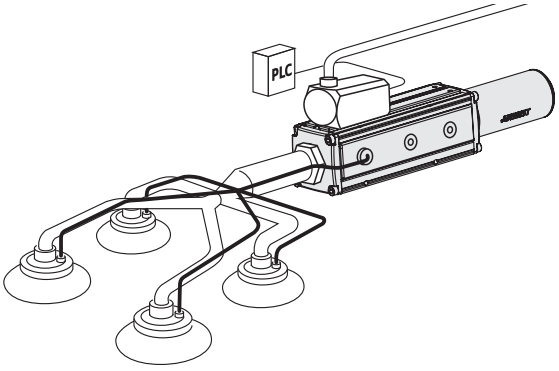
◇ Various connection specifications can meet different customized requirements

◇ Multistage vacuum generator, the housing is made of aluminum alloy

Applications

◇ Suitable for multi-station vacuum grasping applications

◇ Suitable for vacuum evacuation occasions in pharmaceutical and food industry



Structure

◇ (1) Vacuum port

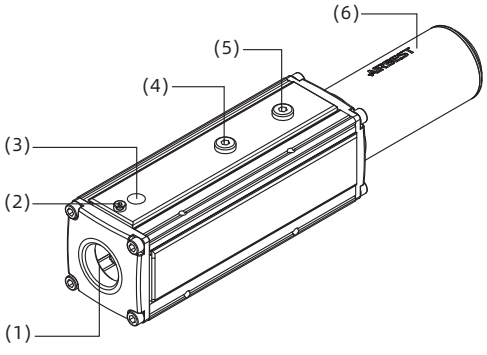
◇ (2) Release port

◇ (3) Air supply port

◇ (4) Vacuum port

◇ (5) Exhaust port

◇ (6) Silencer



AMD Series

Large Flow Vacuum Generator

How to order

AMD - S 3 - LG8 - G8

① ② ③ ④ ⑤

① Series	② Performance	③ Specification	④ Connection plate specification	⑤ Vacuum port specification
AMD	X - High vacuum level	1	LG8 - Straight exhaust, Air supply port: G1/4	G8 - Vacuum port G1
	S - Large vacuum flow	2	Vacuum detecting port: G1/8,	G6 - Vacuum port G3/4
		3	Exhaust detecting port: G1	
		4	LG6 - Side exhaust, Air supply port: G1/4	
			Vacuum detecting port: G1/8,	
			Exhaust port: G3/4	

Technical parameters

Model	Air supply pressure range bar	Working temperature ℃	Rated air supply pressure bar	Max. vacuum level -kPa	Max. vacuum flow NL/min	Air consumption NL/min	Noise level dB(A)	Recommended hose dia. mm (Hose outer dia.) Air supply port	(Wired hose inner dia.) Vacuum port
AMD-X1	4.0~7.0	-10~80	5.0	95	354	130	63~72	≥ϕ8	≥ϕ25
AMD-X2	4.0~7.0	-10~80	5.0	95	700	260	63~72	≥ϕ8	≥ϕ25
AMD-X3	4.0~7.0	-10~80	5.0	95	980	390	63~72	≥ϕ10	≥ϕ45
AMD-X4	4.0~7.0	-10~80	5.0	95	1,380	520	63~72	≥ϕ10	≥ϕ45
AMD-S1	4.0~7.0	-10~80	6.0	75	360	135	63~72	≥ϕ8	≥ϕ32
AMD-S2	4.0~7.0	-10~80	6.0	75	710	270	63~72	≥ϕ8	≥ϕ32
AMD-S3	4.0~7.0	-10~80	6.0	75	1,050	405	63~72	≥ϕ10	≥ϕ45
AMD-S4	4.0~7.0	-10~80	6.0	75	1,410	540	63~72	≥ϕ10	≥ϕ45

Vacuum flow(NL/min) at different vacuum levels(-kPa)

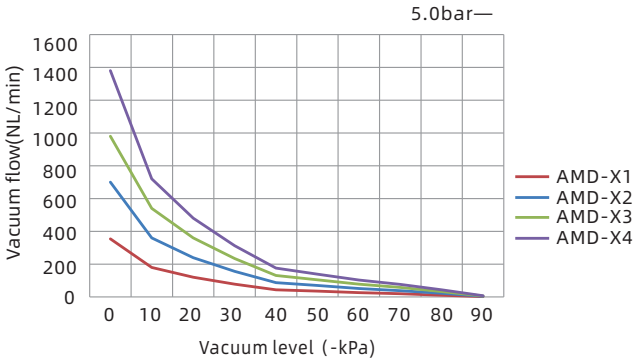
Model	Air supply pressure bar	Air consumption NL/min	0	10	20	30	40	50	60	70	80	90	Max. vacuum level -kPa
AMD-X1	5.0	135	354	180	120	78	43.8	34.8	25.8	19.2	10.8	1.8	95
AMD-X2	5.0	270	700	360	240	156	87.6	69.6	51.6	38.4	21.6	3.6	95
AMD-X3	5.0	405	980	540	360	234	131.4	104.4	77.4	57.6	32.4	5.4	95
AMD-X4	5.0	540	1,380	720	480	312	175.2	139.2	103.2	76.8	43.2	7.2	95
AMD-S1	6.0	130	360	210	156	102	54	36	30	21	-	-	75
AMD-S2	6.0	260	710	420	312	204	108	72	60	42	-	-	75
AMD-S3	6.0	390	1,050	630	468	306	162	108	90	66	-	-	75
AMD-S4	6.0	520	1,410	840	624	408	216	144	120	84	-	-	75

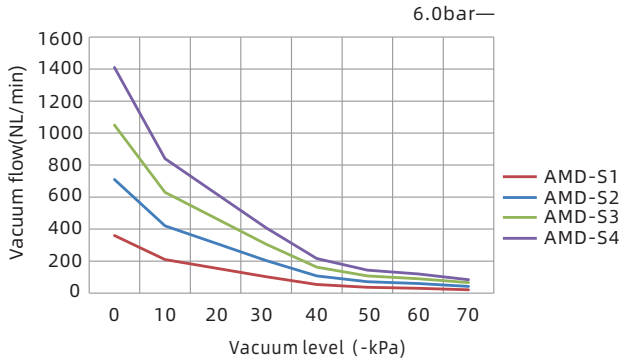
AMD Series

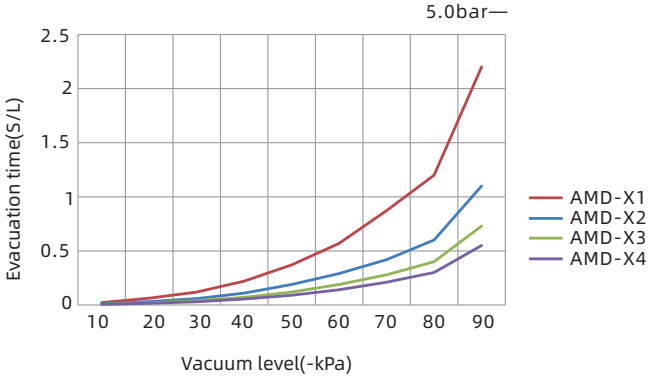
Large Flow Vacuum Generator

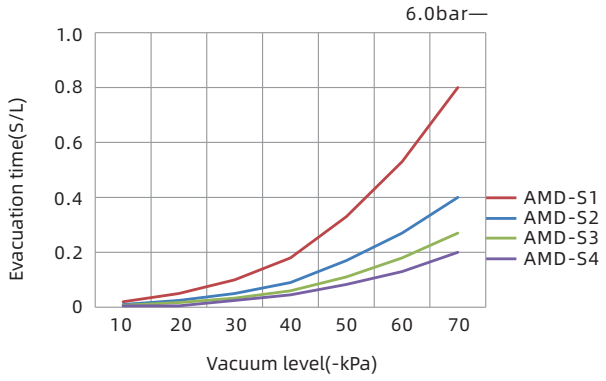
Evacuation time(s/L) to reach different vacuum levels(-kPa)

Model	Air supply pressure bar	Air consumption NL/min	10	20	30	40	50	60	70	80	90	Max. Vacuum level -kPa
AMD-X1	5.0	135	0.022	0.063	0.12	0.22	0.37	0.57	0.874	1.2	2.2	95
AMD-X2	5.0	270	0.011	0.031	0.06	0.11	0.19	0.29	0.42	0.6	1.1	95
AMD-X3	5.0	405	0.007	0.021	0.04	0.07	0.12	0.19	0.28	0.4	0.73	95
AMD-X4	5.0	540	0.006	0.016	0.03	0.055	0.09	0.14	0.21	0.3	0.55	95
AMD-S1	6.0	130	0.02	0.05	0.1	0.18	0.33	0.53	0.8	-	-	75
AMD-S2	6.0	260	0.01	0.025	0.05	0.09	0.17	0.27	0.4	-	-	75
AMD-S3	6.0	390	0.007	0.017	0.033	0.06	0.11	0.18	0.27	-	-	75
AMD-S4	6.0	520	0.005	0.005	0.025	0.045	0.083	0.13	0.2	-	-	75

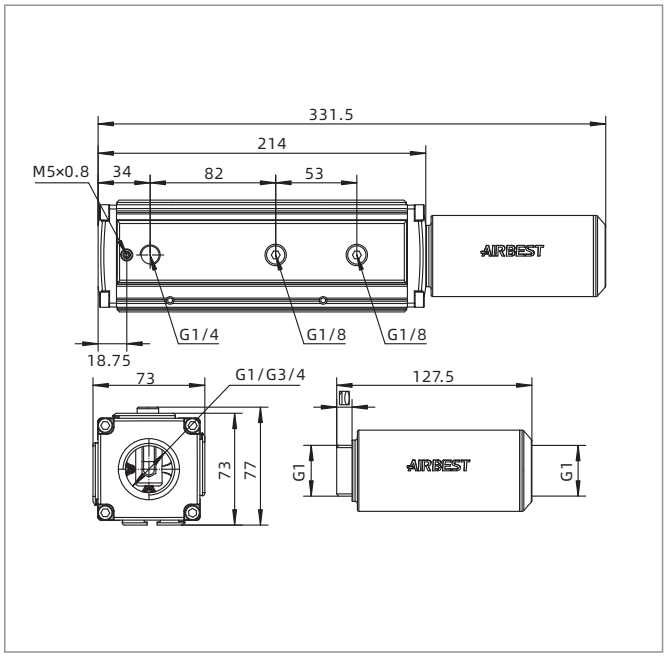




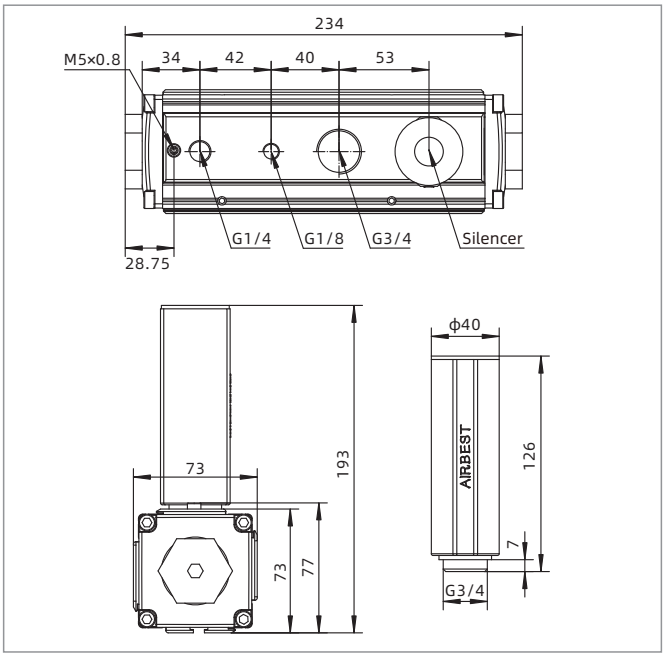




Dimensions(mm)

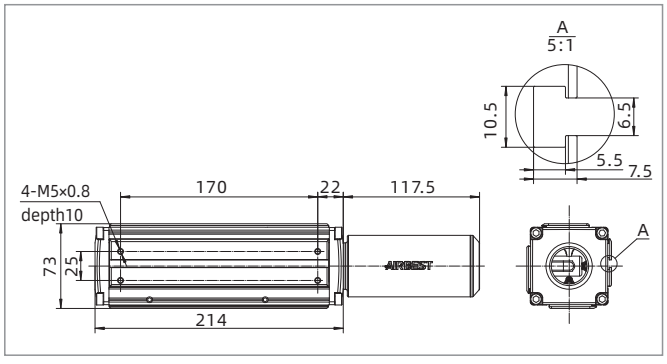


AMD-□-LG8-□ type (Straight exhaust)



AMD-□-LG6-□ type (Side exhaust)

Mounting dimensions(mm)



SFK Series

Flat Suction Cup Special for Objects with Rough Surface

RoHS

Features

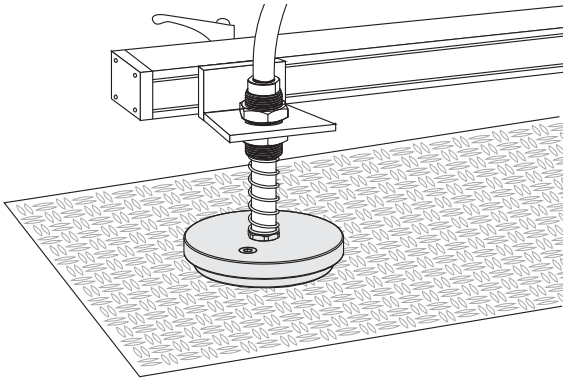
◇ Sealing ring is made of flexible EPDM foam rubber
◇ Internal large area support structure
◇ Small inner volume
◇ Various sizes are available

Advantages

◇ Suitable for workpieces with rough or uneven surfaces
◇ Slipping resistance. Prevent thin workpiece from permanent deformation
◇ Short work cylcle
◇ Suitable for workpieces with different sizes and shapes

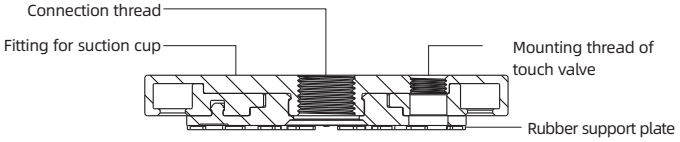
Applications

◇ Handling workpieces with uneven surfaces,such as embossed steel plate, decorative glass, rough slate, wooden plate, etc.
◇ Touch valve is optional, which will close vacuum chamber when it detects that suction cups do not contact workpieces, in order to avoid vacuum leakage

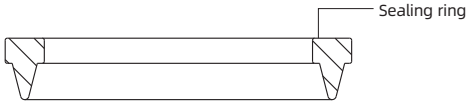


Structure

◇ Split structure design, wearing parts can be replaced separately
◇ Separate functional port is equipped



◇ Note: The functional threaded hole is sealed with a plug when delivered. Seal the thread with thread glue or raw tape when connecting



SFK Series

Flat Suction Cup Special for Objects with Rough Surface

How to order

SFK 110 E - G4F - V

① ② ③ ④ ⑤

① Series	② Diameter	③ Material & Hardness		④ Connection thread	⑤ Special specification
SFK	110 - ϕ110mm 160 - ϕ160mm 200 - ϕ200mm 250 - ϕ250mm	E - EPDM	20	Nil - Sealing ring only G4F - G1/2 female thread	Nil - Standard V - With touch valve

Selection

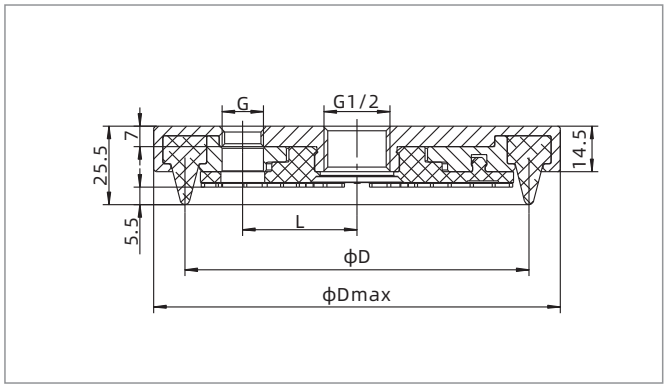
Model	Connection thread F - Female thread	
SFK110E	SFK110E-G4F	SFK110E-G4F-V
SFK160E	SFK160E-G4F	SFK160E-G4F-V
SFK200E	SFK200E-G4F	SFK200E-G4F-V
SFK250E	SFK250E-G4F	SFK250E-G4F-V

Technical parameters

Model	Pull-out force N	Inner volume cm^3	Min.curve radius of workpiece mm	Weight g	Recommended hose dia. mm	MPQ pcs
SFK110	480	70	300	465	10	1
SFK160	1080	145	600	935	10	1
SFK200	1800	225	1000	1445	12	1
SFK250	2800	360	1500	2225	12	1

◇ Note:Testing vacuum level -60kPa, workpiece with smooth and clean surface. The data of pull-out force as above are figured out without considering safety factor. The data may be different according to different workpiece surfaces.Recommend the length of vacuum hose to be as short as possible, max 2m.

Dimensions(mm)



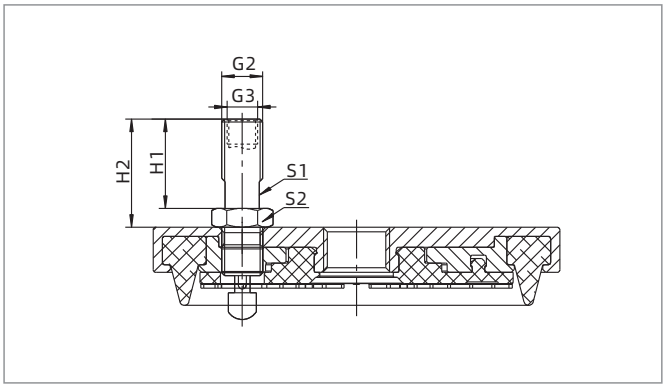
SFK110-250

Model/Size	Dmax	D	G	L
SFK110E-G4F	130	110	G1/4	36.5
SFK160E-G4F	179	160	G1/4	36.5
SFK200E-G4F	219	200	G1/2	76
SFK250E-G4F	269	250	G1/2	76

SFK Series

Flat Suction Cup Special for Objects with Rough Surface

Dimensions(mm)



SFK110-250

Model/Size	G2	G3	H1	H2	S1	S2
SFK110E-G4F-V	G1/4	G1/8	27.5	33.5	11	17
SFK160E-G4F-V	G1/4	G1/8	27.5	33.5	11	17
SFK200E-G4F-V	G1/2	G3/8	29.5	37.5	19	27
SFK250E-G4F-V	G1/2	G3/8	29.5	37.5	19	27

◇ Note: 1. The dimensional tolerance conforms to GBT3672.1-2002-1 M3 rubber product dimensional tolerance standard
2. The height of the touch valve contact beyond the suction cup lip can be adjusted by itself according to the actual application.
Locking the nut afte height position is determined.
Applicable thread sealant should be applied to the thread connection of touch valve and fitting for suction cup

Accessories

Item	Model	Applicable suction cup
Touch valve	ZVD-G2M	SFK110,160
	ZVD-G4M	SFK200,250

SHT Series

High Temperature Suction Cup


METAL SHEET


GLASS

Features

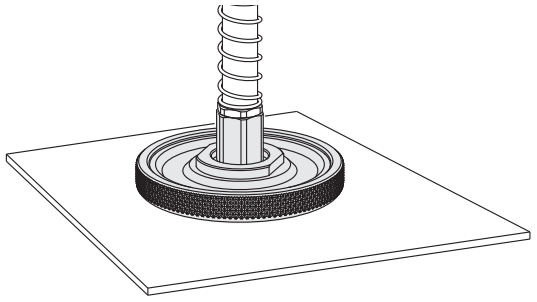
◇ The body is made of stainless steel
◇ The sealing ring is made of special high temperature resistant textile material
◇ Long time high temperature resistance up to 600℃

Advantages

◇ Strong wear resistance
◇ Excellent high temperature resistance, can achieve long time contact with the workpiece

Applications

◇ Handling workpieces with smooth and flat surfaces
◇ Hot forming of metal workpieces and other processes
◇ For float glass and tempering processes
◇ Note: All components in the matching vacuum circuit should be made of high temperature resistant materials



Structure

◇ Split structure design, wearing parts can be replaced separately

How to order

SHT 35 - G1F
① ② ③

Series	Diameter	③ Connection thread
SHT	35 - ϕ35mm 60 - ϕ60mm 90 - ϕ90mm	Nil - Sealing parts only G1F - G1/8 female thread G2F - G1/4 female thread

Selection

Model	Connection thread G1F	G2F
SHT35-□	SHT35-G1F	-
SHT60-□	-	SHT60-G2F
SHT90-□	-	SHT90-G2F

SHT Series

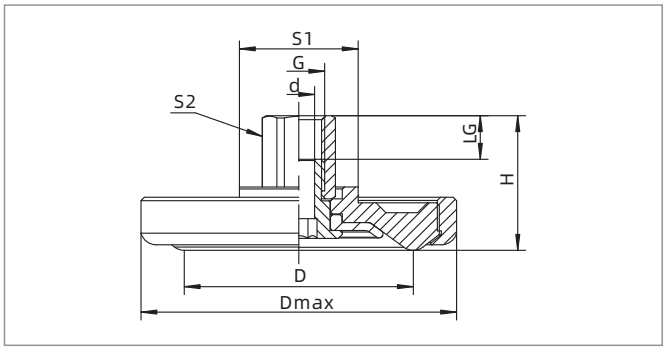
High Temperature Suction Cup

Technical parameters

Model	Pull-out force N	Inner volume cm^3	Vacuum flow (NL/min) (Vacuum level-70kPa)	Weight g	Recommended hose dia. mm	MPQ pcs
SHT35-G1F	60	4	20	195	6	1
SHT60-G2F	130	10	22	408	8	1
SHT90-G2F	280	30	24	655	8	1

◇ Note: Testing vacuum level -60kPa, workpiece with smooth and clean surface. The data of pull-out force as above are figured out without considering safety factor. The data may be different according to different workpiece surfaces.

Dimensions(mm)



SHT

Model/Size	D	H	G	LG	Dmax	d	S1	S2
SHT35-G1F	35	28	G1/8	9	53	6	30	14
SHT60-G2F	58	34	G1/4	11	80	8	30	17
SHT90-G2F	90	33	G1/4	11	112	8	46	17

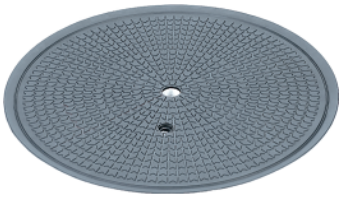
SFG Series

Flat Suction Cup Special for Glass Industry

GLASS | SLIPPING RESISTANCE | HIGH SEALING

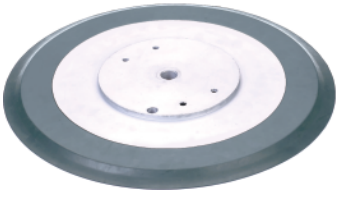
RoHS

Featueres



◇ Double flat sealing lips
◇ Inner large area pattern support structure at the bottom
◇ Small inner volume, two compressed stroke
◇ Some specifications are split structure
◇ Various sizes are available

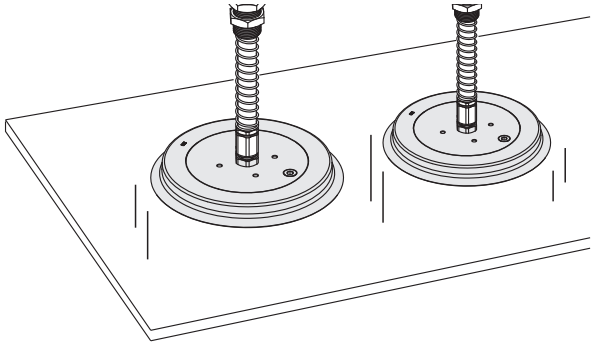
Advantages



◇ Excellent airtightness
◇ Large firction coefficients, prevent deformation of workpiece
◇ Short work cycle, with high strok, it can suck glass with a certain curvature
◇ Metal parts can be used repeatledy, reducing customer's cost greatly
◇ Suitable for workpieces with different sizes and shapes

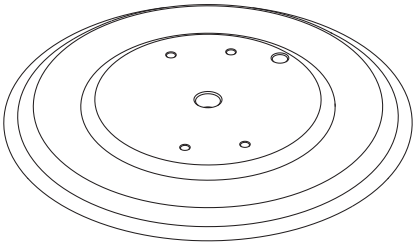
Applications

◇ Handling workpieces with smooth surface such as glass, plastic plate, ect. Realizing long time pressure holding
◇ Handling big workpieces with a certain curvature on surface, such as car windshields
◇ Handling thin workpieces, such as flat glass or coated glass
◇ Handling glass plate surfaced with separation powder or stripping powder



Structure

◇ Double sealing lip, special pattern structure
◇ For SFG200 and diameter less than 200mm, they are split structure, wearing parts can be replaced separately. For diameter more than 200mm, they are one-piece structure
◇ With large area aluminum fitting for suction cup, it can effectively prevent light and thin workpiece from bending when handling heavy load workpieces
◇ Standard stroke and high stroke are optional, with high stroke, it can suck glass with a certain curvature
◇ With separate functional port
◇ Note: The functional threaded hole is sealed with a plug when delivered. Seal the thread with thread glue or raw tape when connecting



SFG Series

Flat Suction Cup Special for Glass Industry

How to order

SFG 150 H E - G4F
① ② ③ ④ ⑤

Series	Diameter	Stroke	④ Material & Hardness		⑤ Connection thread
SFG	125 - ϕ125mm	Nil - Standard stroke	E - EPDM	55	G2F - G1/4 female thread
	150 - ϕ150mm	H - High stroke	HD - High temp/ Mark free material	60	G3F - G3/8 female thread
	200 - ϕ200mm				G4F - G1/2 female thread
	250 - ϕ250mm				
	300 - ϕ300mm				
	350 - ϕ350mm				
	400 - ϕ400mm				

Selection

Model/ Stroke	H - High stroke
SFG125□-G2F SFG125□-G3F	-
SFG150□-G4F	SFG150H□-G4F
SFG200□-G4F	-
-	SFG250H□-G4F
-	SFG300H□-G4F
-	SFG350H□-G4F
SFG400□-G4F	-

Technical parameters

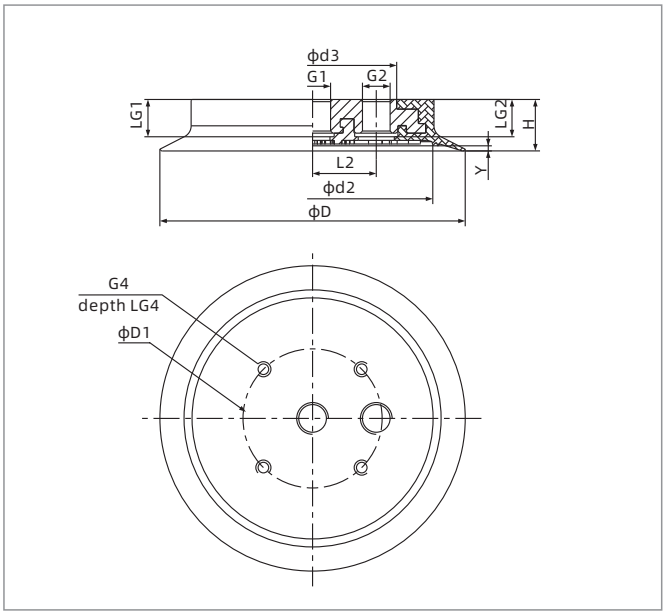
Model	Pull-out force N	Inner volume cm^3	Min.curve radius of workpiece mm	Weight g	Recommended hose dia. mm	MPQ pcs
SFG125	740	44	1,500	290	8	1
SFG150	1,100	65	2,000	490	8	1
SFG150H	1,100	119	370	490	8	1
SFG200	1,950	144	3,500	1,040	10	1
SFG250H	2,950	372	1,600	950	10	1
SFG300H	4,300	550	2,400	1,510	12	1
SFG350H	5,780	779	3,000	2,040	12	1
SFG400	7,600	560	13,500	2,635	12	1

◇ Note:Testing vacuum level -60kPa, workpiece with smooth and clean surface. The data of pull-out force as above are figured out without considering safety factor.
The data may be different according to different workpiece surfaces. Recommend the length of vacuum hose to be as short as possible, max 2m.

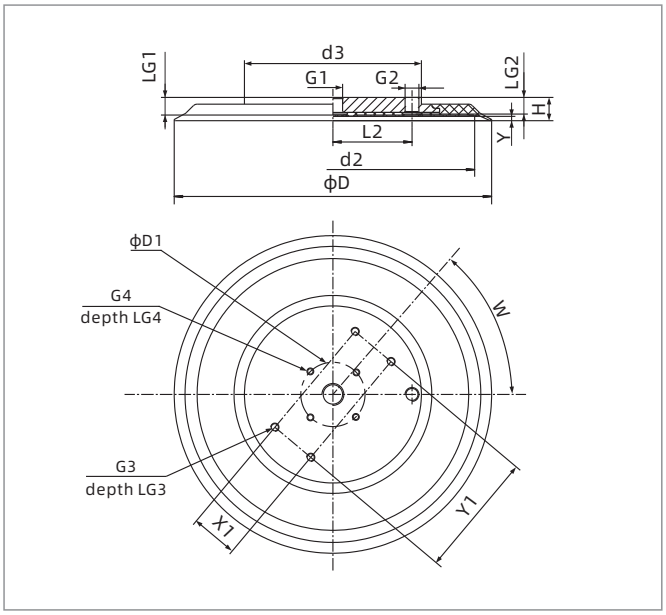
SFG Series

Flat Suction Cup Special for Glass Industry

Dimensions(mm)



SFG125-200



SFG250-400

Model/Size	D	d2	d3	G1	G2	G3	G4	D1	H	L2	LG1	LG2	LG3	LG4	W	X1	Y1	Y
SFG125□-G2F	125	100	70	G1/4	G1/4	-	4-M6	59	21.5	26.5	14	14	-	8	-	-	-	3
SFG125□-G3F	125	100	70	G3/8	G1/4	-	4-M6	59	21.5	26.5	14	14	-	8	-	-	-	3
SFG150□-G4F	150	125	93	G1/2	G1/4	-	4-M6	59	21.5	36.5	14	14	-	8	-	-	-	3.3
SFG150H□-G4F	150	126	70	G1/2	G1/4	-	4-M6	59	26	26.5	14	14	-	8	-	-	-	7.5
SFG200□-G4F	200	185	134	G1/2	G1/4	-	4-M6	59	22	52.8	14	14	-	8	-	-	-	3.6
SFG250H□-G4F	250	217	140	G1/2	G1/4	4-M8	4-M6	59	27	52.5	14.5	14.5	12	8	70	45	100	9
SFG300H□-G4F	300	272	170	G1/2	G1/4	4-M8	4-M8	59	27	76	14.5	14.5	12	10	50	45	120	9
SFG350H□-G4F	350	317	170	G1/2	G1/4	4-M8	4-M8	59	27	76	14.5	14.5	12	10	50	45	120	9
SFG400□-G4F	400	372	170	G1/2	G1/4	4-M8	4-M8	59	22.5	76	14.5	14.5	12	10	50	45	120	4.5

◇ Note: The dimensional tolerance conforms to GBT3672.1-2002-1 M3 rubber product dimensional tolerance standard

Mounting parts

Item	Model	Applicable suction cup
Rubber parts for suction cup	SFG125E SFG125HD	SFG125□-G2F SFG125□-G3F
	SFG150E SFG150HD	SFG150□-G4F
	SFG150HE SFG150HHD	SFG150H□-G4F
	SFG200E SFG200HD	SFG200□-G4F

◇ Note: When you buy rubber parts only, pls ensure that the fitting for suction cup you buy is in good condition, and send it back to factory to replace the rubber parts

SFGT Series

Big Flat Suction Cup


METAL SHEET


GLASS

RoHS

Features

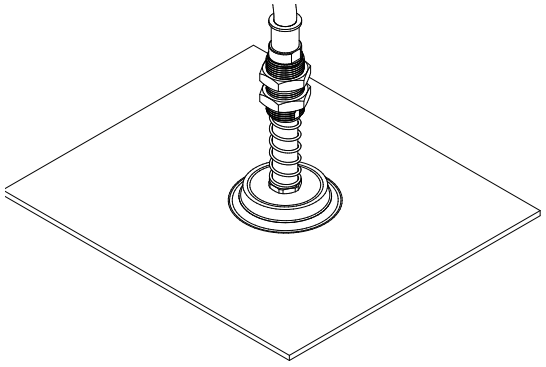
◇ Multilayer sealing lip
◇ Small inner volume
◇ Internal multipoint support structure

Advantages

◇ Excellent airtightness, large suction force
◇ Short work cycle
◇ Prevent workpieces from side slipping
◇ Rubber parts can be replaced separately，reduce customer's cost greatly

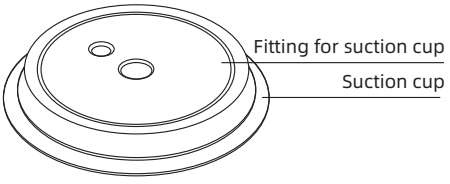
Applications

◇ Flat workpiece with smooth or slightly rough surface
◇ Metal sheet
◇ Glass

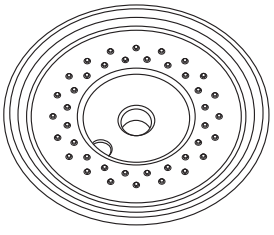


Structure

◇ Fitting for suction cup and rubber parts are split structure design, wearing parts can be replaced separately



◇ Note: The functional threaded hole is sealed with a plug when delivered. Seal the thread with thread glue or raw tape when connecting



SFGT Series

Big Flat Suction Cup

How to order

SFGT 120 WS - G3F
① ② ③ ④

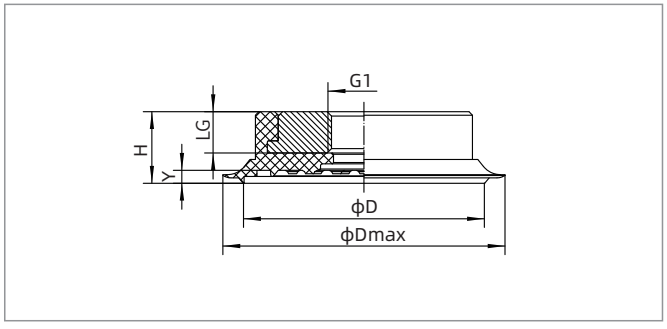
Series	Diameter	Material & Hardness	Connection thread
SFGT	65 - ϕ65mm 90 - ϕ90mm 120 - ϕ120mm 160 - ϕ160mm	WS - White silicone 50	Nil - Suction cup only G3F - G3/8 female thread G4F - G1/2 female thread

Technical parameters

Model	Pull-out force N	Inner volume cm^3	Recommended hose Dia. mm	Weight g	MPQ pcs
SFGT65-G3F	110	3.5	8	48	1
SFGT90-G3F	320	11	8	110	1
SFGT120-G3F	550	25	10	226	1
SFGT160-G4F	1010	81	10	584	1

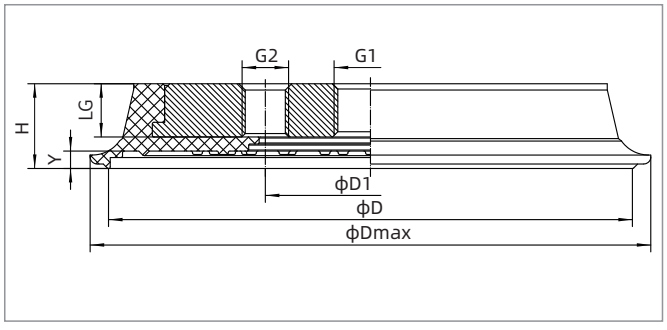
◇ Note:Testing vacuum level -60kPa, workpiece with smooth and clean surface. The data of pull-out force as above are figured out without considering safety factor. The data may be different according to different workpiece surfaces. Recommend the length of vacuum hose to be as short as possible, max 2m.

Dimensions mm



SFGT65-SFGT90

Model/Size	ϕDmax	ϕD	G1	H	Y	LG
SFGT65-G3F	65	55	G3/8	16.5	3	9.5
SFGT90-G3F	90	79.5	G3/8	17	2.5	11



SFGT120-SFGT160

Model/Size	ϕDmax	ϕD	ϕD1	G1	G2	H	Y	LG
SFGT120-G3F	120	108	52	G3/8	G1/4	17.4	2.9	11
SFGT160-G4F	160	150	60	G1/2	G1/4	24.4	5.2	15.2

◇ Note: 1. The dimensional tolerance conforms to GBT3672.1-2002-1 M3 rubber product dimensional tolerance standard.
2. Dmax is outer diameter of the suction cup when it is completely compressed

SF Series

Universal Flat Suction Cup

UNIVERSAL

RoHS

Features

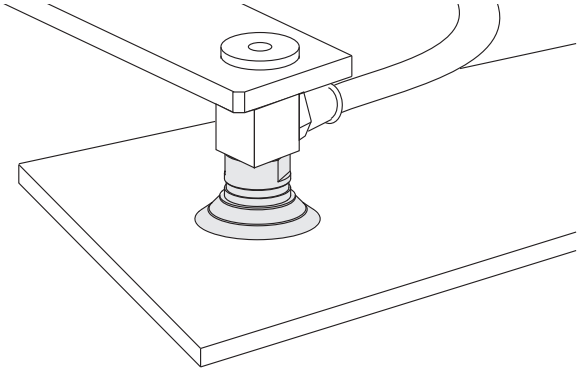
◇ Support structure at the bottom
◇ Small inner volume
◇ Various sizes are available

Advantages

◇ Handling thin workpiece without permanent deformation
◇ Short work cycle
◇ Suitable for workpieces with different sizes and shapes

Applications

◇ Suitable for flat workpiece with smooth or slightly rough surfaces, such as smooth wood plate, smooth steel plate, plywood, plastic plate, etc.
◇ Suitable for handling electronic components, anti-static material can effectively prevent electrostactic damage to electronic products

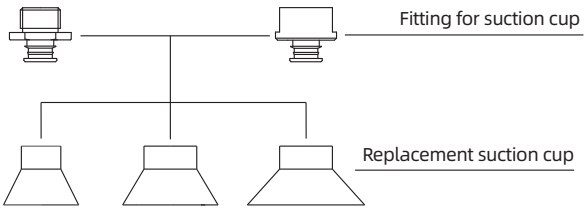


Structure

◇ Suction cup and fitting are split structure design, wearing parts can be replaced separately
◇ Contact inductive valve is optional for suction cup with diameter ϕ50-150mm, in order to avoid accidental vacuum leakage

◇ Note: The functional threaded hole is sealed with a plug when delivered. Seal the thread with thread glue or raw tape when connecting

In same series, replacement suction cup and fitting can be combined on request.



SF Series

Universal Flat Suction Cup

How to order

SF 50 N - G2F - EB

① ② ③ ④ ⑤

Series	Diameter	Material & Hardness	Connection thread	⑤ Special specification
SF	15 - ϕ15mm	N - NBR 55	Nil - Suction cup only	Nil - Standard
	20 - ϕ20mm	S - Silicone 50	M5M - M5×0.8 male thread	EB - With contact inductive valve
	25 - ϕ25mm	WS - White silicone 50	G1M - G1/8 male thread	EW - With mesh filter
	30 - ϕ30mm	CS - Conductive silicone 55	G2M - G1/4 male thread	EH - With throttle valve
	40 - ϕ40mm		G3M - G3/8 male thread	
	50 - ϕ50mm		G1F - G1/8 female thread	
	75 - ϕ75mm		G2F - G1/4 female thread	
	110 - ϕ110mm		G3F - G3/8 female thread	
	150 - ϕ150mm		G4F - G1/2 female thread	
	200 - ϕ200mm		G6F - G3/4 female thread	
	300 - ϕ300mm			

Selection

Model	Connection thread M - Male thread	F - Female thread
SF15□	SF15□-M5M	-
SF20□	SF20□-G1M(-EW/EH)	SF20□-G1F(-EW/EH)
SF25□	SF25□-G1M(-EW/EH)	SF25□-G1F(-EW/EH)
SF30□	SF30□-G1M(-EW/EH)	SF30□-G1F(-EW/EH)
SF40□	SF40□-G1M(-EW/EH)	SF40□-G1F(-EW/EH)
SF50□	SF50□-G2M(-EW/EH) SF50□-G3M(-EW/EH)	SF50□-G2F(-EW/EH/EB) SF50□-G3F(-EW/EH)
SF75□	-	SF75□-G2F SF75□-G2F-EB
SF110□	-	SF110□-G4F SF110□-G4F-EB
SF150□	-	SF150□-G4F SF150□-G4F-EB
SF200□	-	SF200□-G4F
SF300□	-	SF300□-G6F

SF Series

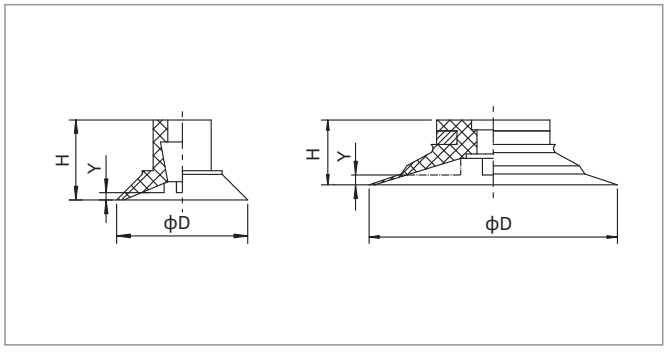
Universal Flat Suction Cup

Technical parameters

Model	Pull-out force N	Inner volume cm^3	Weight g	Recommended hose dia. mm	MPQ pcs
SF15	8	0.5	0.7	6	10
SF20	14.5	0.8	1.4	6	5
SF25	22	1.2	1.8	6	5
SF30	32	1.5	2.6	6	5
SF40	60	3	5.2	6	5
SF50	88	7	11.5	6	1
SF75	200	20	47.2	8	1
SF110	430	60	116	10	1
SF150	795	160	344.2	10	1
SF200	1,500	550	732.2	12	1
SF300	3,200	730	2,700	12	1

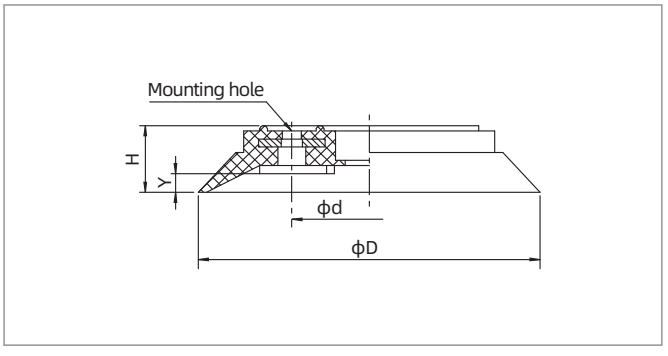
◇ Note:Testing vacuum level -60kPa, workpiece with smooth and clean surface. The data of pull-out force as above are figured out without considering safety factor. The data may be different according to different workpiece surfaces. Recommend the length of vacuum hose to be as short as possible, max 2m.

Dimensions(mm) - Suction cup only



SF15 SF20-50

Model/Size	D	H	Y
SF15□	16.5	11	0.8
SF20□	22	8	1
SF25□	27	9	1
SF30□	32	10	1.2
SF40□	42	13	1.2
SF50□	53	17.5	3.2

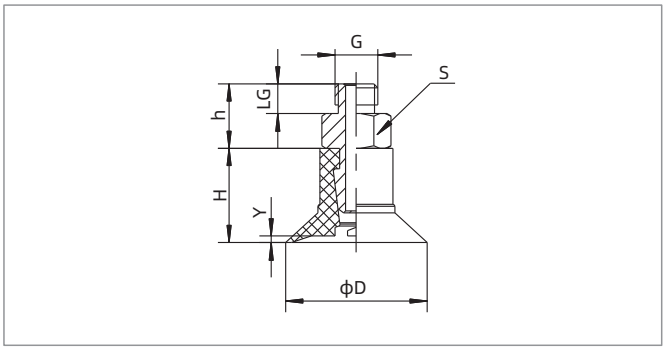


SF75-200

Model/Size	D	H	d	Y	Mounting hole
SF75□	77	13	35	4	4-ϕ6
SF110□	112	20	55	6	8-ϕ6
SF150□	152	26	70	8	8-ϕ6
SF200□	200	45	40	20	4-ϕ9

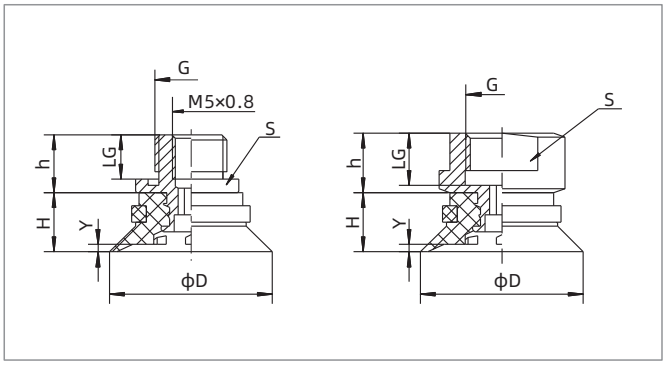
◇ Note: The dimensional tolerance conforms to GBT3672.1-2002-1 M3 rubber product dimensional tolerance standard

Dimensions(mm) - Suction cup with fitting



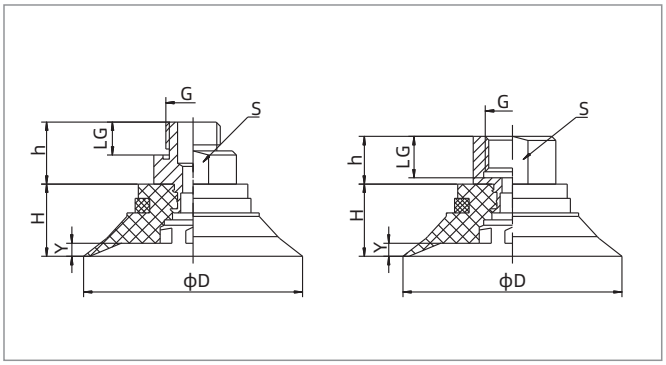
SF15□-M5M Male thread connection

Model/Size	D	H	G	LG	h	S	Y
SF15□-M5M	16.5	11	M5×0.8	3.5	7.5	7	0.8



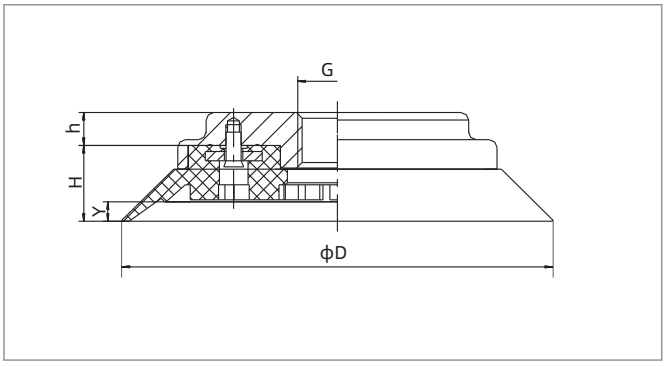
SF20-30 Male thread connection SF20-30 Female thread connection

Model/Size	D	H	G	LG	h	S	Y
SF20□-G1M	22	8	G1/8	6	7.8	13	1
SF20□-G1F	22	8	G1/8	7	8	13	1
SF25□-G1M	27	9	G1/8	6	7.8	13	1
SF25□-G1F	27	9	G1/8	7	8	13	1
SF30□-G1M	32	10	G1/8	6	7.8	13	1.2
SF30□-G1F	32	10	G1/8	7	8	13	1.2



SF40-50 Male thread connection SF40-50 Female thread connection

Model/Size	D	H	G	LG	h	S	Y
SF40□-G1M	42	13	G1/8	6	12	17	1.2
SF40□-G1F	42	13	G1/8	7	10	17	1.2
SF50□-G2M	53	17.5	G1/4	9	17	24	3.2
SF50□-G2F	53	17.5	G1/4	10	13	24	3.2
SF50□-G3M	53	17.5	G3/8	10	18	24	3.2
SF50□-G3F	53	17.5	G3/8	11	13	24	3.2



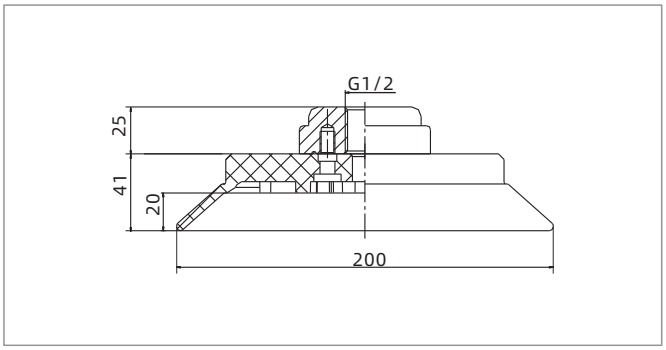
SF75-150 Female thread connection

Model/Size	D	H	G	h	Y
SF75□-G2F	77	13	G1/4	13	4
SF110□-G4F	112	20	G1/2	9	6
SF150□-G4F	152	26	G1/2	10	8

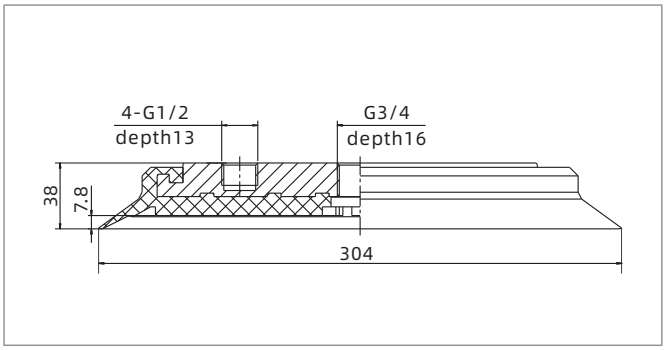
SF Series

Universal Flat Suction Cup

Dimensions(mm) - Suction cup with fitting

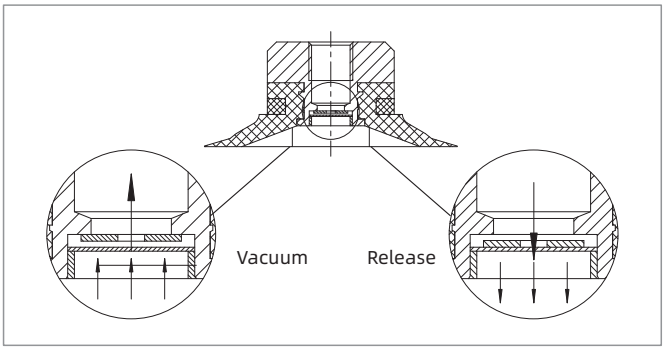


SF200 Female thread connection



SF300 Female thread connection

Accessories

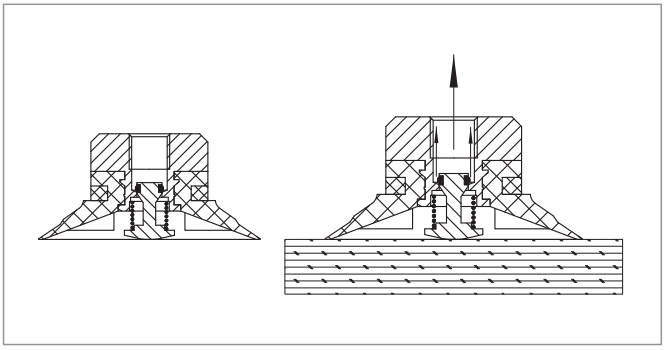


EH - Throttle valve

EH - Throttle valve

◇ The flow through the vacuum port increases when the suction cup doesn't contact the workpiece, the valve plate fits the vacuum port, just little vacuum flow leaks from the small hole

◇ The flow through the vacuum port reduces when the suction cup sucks the workpiece, the valve plate leaves the vacuum port, suction cup works normally. (Suction cup must work vertically when it is equipped with throttle vlave)



EB - Contact inductive valve

EB - Contact inductive valve

◇ When the suction cup doesn't contact the workpiece, the inductive valve closes the vacuum port to prevent the vacuum flow leakage

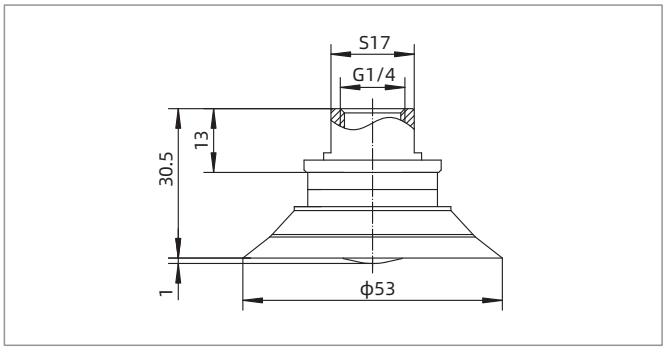
◇ When the suction cup contacts the workpiece, compresses the valve rod of the inductive valve, the vacuum port opens and the suction cup works normally

◇ Note: The contact inductive valve should be used with PSPT-H, PSPH and PSPD series level compensators. Otherwise, the spring force of inductive valve is higher than that of the level compensator, which results in the failure to open the valve. Please contact us for more details.

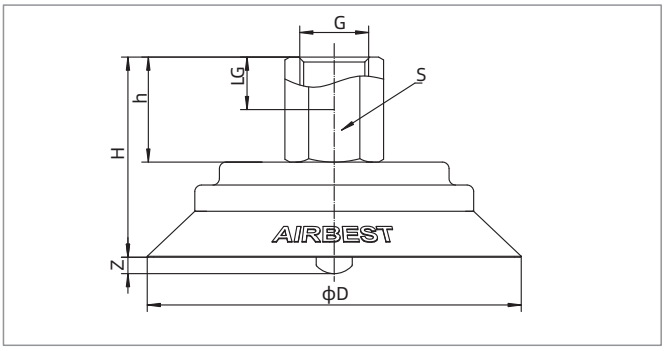
SF Series

Universal Flat Suction Cup

Dimensions(mm) - With contact inductive valve



SF50□-G2F-EB



SF75-150

Model/Size	D	H	h	G	LG	S	Z	Spring force N
SF75-G2F-EB	77	58	32	G1/4	10	27	5	13
SF75-G4F-EB	77	58	32	G1/2	15	27	5	13
SF110-G4F-EB	112	61	32	G1/2	15	27	5	15
SF150-G4F-EB	152	69	32	G1/2	15	27	5	16

◇ Note: The spring force is the min. pressure required when the suction cup is attached to the surface of the workpiece and the inductive valve is fully opened. The spring force (50% stroke) of the level compensator should be higher than that of the inductive valve.

Mounting parts

Item	Model M - Male thread	F - Female thread	Applicable suction cup
Fitting for suction cup	PJS-M5M-SC3	-	SF15
	PJS-G1M-SF1	PJS-G1F-SF1	SF20, 25, 30
	PJS-G1M-SF2	PJS-G1F-SF2	SF40
	PJS-G2M-SF3	PJS-G2F-SF3	SF50
	PJS-G3M-SF3	PJS-G3F-SF3	SF50
	-	PJS-G2F-SF75	SF75
	-	PJS-G4F-SF110	SF110
	-	PJS-G4F-SF150	SF150
	-	PJS-G4F-SF200	SF200

PSPH Series

Heavy-duty Level Compensator

UNIVERSAL HEAVY LOAD

RoHS

Features

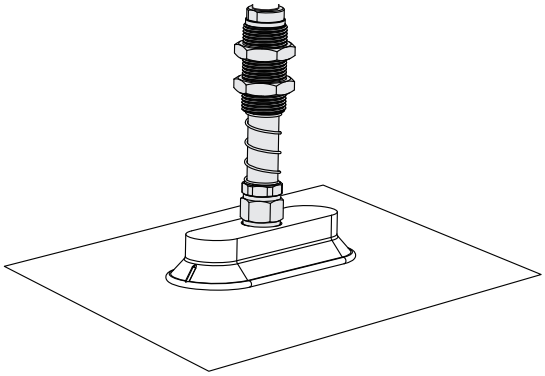
◇ Oilless, wear-resistant bushing is built in the guide sleeve
◇ Heavy duty external buffer spring
◇ Non-rotating type can be selected
◇ Various buffer stroke specifications are available
◇ Suitable for heavy duty working condition

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

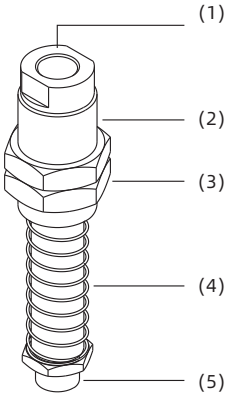
Applications

◇ 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

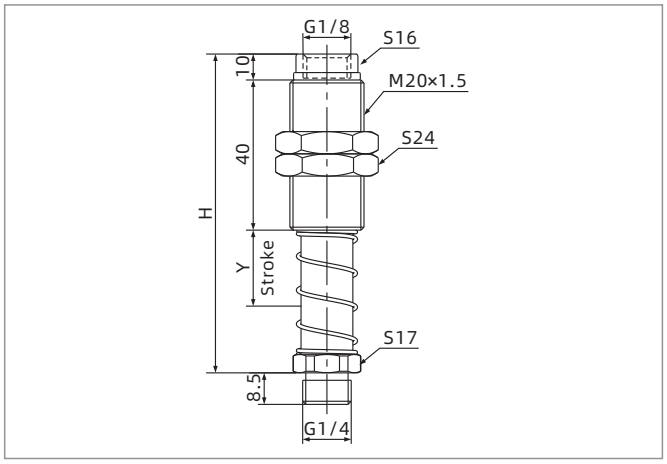
3. Vertical load refers to the max. vertical tension that the level compensator can bear in static state

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

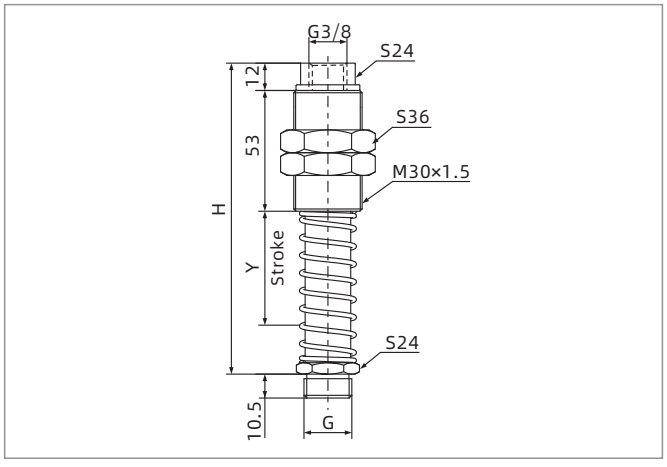
Heavy-duty Level Compensator

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

PSPD Series

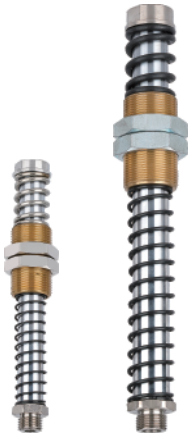
Double Springs Heavy-duty Level Compensator

UNIVERSAL HEAVY LOAD

RoHS

Features

◇ Oilless, wear-resistant bushing is built in the guide sleeve
◇ With double buffer springs
◇ Non-rotating type can be selected
◇ Various buffer stroke specifications are available

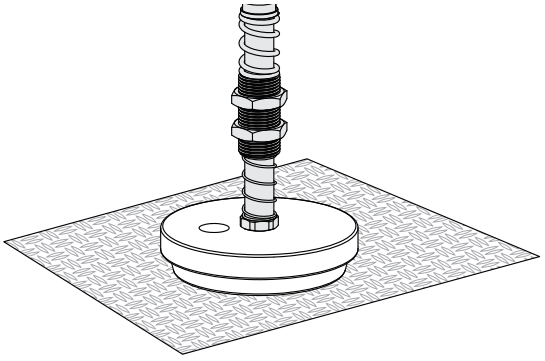


Advantages

◇ Reduce product wear, improve the lifetime of the products and reduce the noise
◇ Flexible contact with fragile workpieces, compensate the height difference of workpieces
◇ Suitable for precise positioning of oval suction cup
◇ Suitable for various working conditions

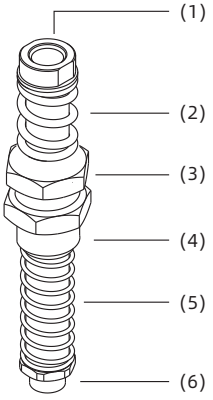
Applications

◇ Suitable for handling heavy workpieces, such as steel plate
◇ Suitable for the working conditions that need flexible contact and shock absorption when carrying objects, such as glass
◇ Suitable for use in harsh environment
◇ Non-rotating level compensator is suitable for oval suction cup
◇ Double spring buffer structure can prevent the impact on the support rod end when handling the workpiece and turning it over



Structure

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



PSPD Series

Double Springs Heavy-duty Level Compensator

How to order

PSPD - 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
PSPD	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
		90		G4M - G1/2 male thread	

Selection

Model/Connection thread G2M	RG2M	G3M	RG3M	G4M	RG4M
PSPD-E25G2M-M20	PSPH-E25RG2M-M20	PSPD-E25G3M-M30	PSPD-E25RG3M-M30	PSPD-E25G4M-M30	PSPD-E25RG4M-M30
PSPD-E50G2M-M20	PSPH-E50RG2M-M20	PSPD-E50G3M-M30	PSPD-E50RG3M-M30	PSPD-E50G4M-M30	PSPD-E50RG4M-M30
-	-	PSPD-E90G3M-M30	PSPD-E90RG3M-M30	PSPD-E90G4M-M30	PSPD-E90RG4M-M30

Technical parameters

Model	Pretightening force(1) N	Elastic force(2) N	Vertical load(3) N	Working temperature ℃	Weight g
PSPD-E25(R)G2M-M20	8.6	16.8	2,400	0~80	181
PSPD-E50(R)G2M-M20	14.4	21	2,400	0~80	207
PSPD-E25(R)G3M-M30	24	74.5	4,800	0~80	507
PSPD-E50(R)G3M-M30	7.5	61	4,800	0~80	600
PSPD-E90(R)G3M-M30	25.2	73.7	4,800	0~80	754
PSPD-E25(R)G4M-M30	24	74.5	4,800	0~80	515
PSPD-E50(R)G4M-M30	7.5	61	4,800	0~80	608
PSPD-E90(R)G4M-M30	25.2	73.7	4,800	0~80	762

◇ 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 does not exceed 50% of its max. compressed stroke

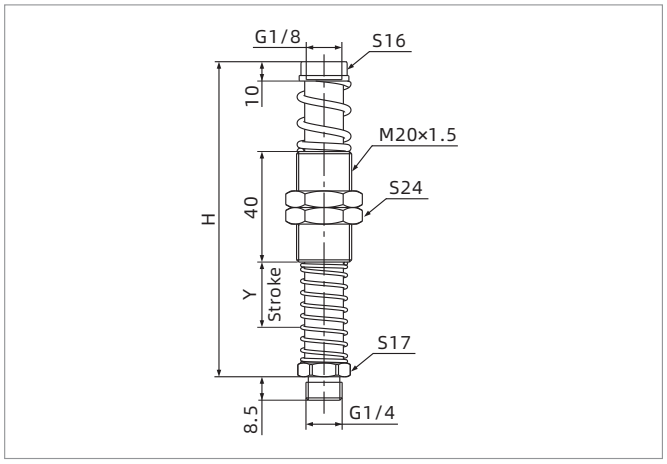
3. Vertical load refers to the max. vertical tension that the level compensator can bear in static state

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 bigger than the horizontal load range, the spring may get stuck

PSPD Series

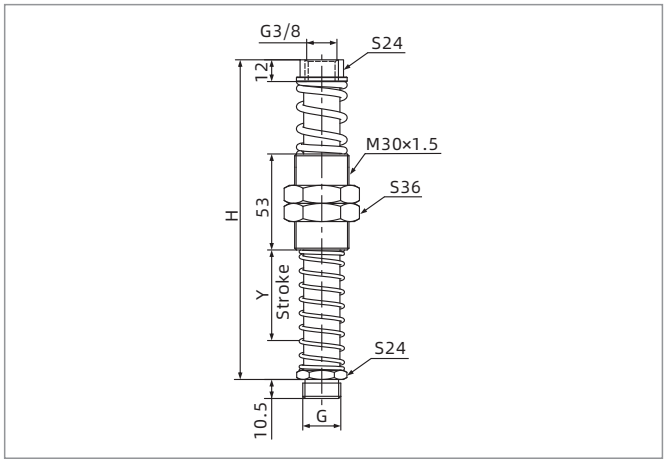
Double Springs Heavy-duty Level Compensator

Dimensions(mm)



PSPD-E□(R)G2M-M20

Model/Size	H	Y
PSPD-E25(R)G2M-M20	114.5	25
PSPD-E50(R)G2M-M20	144	50



PSPD-E□(R)G3M-M30 PSPD-E□(R)G4M-M30

Model/Size	H	G	Y
PSPD-E25(R)G3M-M30	146.5	G3/8	25
PSPD-E50(R)G3M-M30	176.5	G3/8	50
PSPD-E90(R)G3M-M30	229.5	G3/8	90
PSPD-E25(R)G4M-M30	146.5	G1/2	25
PSPD-E50(R)G4M-M30	176.5	G1/2	50
PSPD-E90(R)G4M-M30	229.5	G1/2	90

PJE Series

Universal mounting parts-flexible joint

UNIVERSAL

Features

- ◇ Flexible connection for deflection in any direction with a maximum deflection angle 12°
- ◇ The rotating joints are vulcanized by high-strength metal and high-performance rubber, which guarantees strength, elasticity and sealability, and can be automatically reset
- ◇ Suitable for large suction cup to handle workpiece with inclined surface

How to order

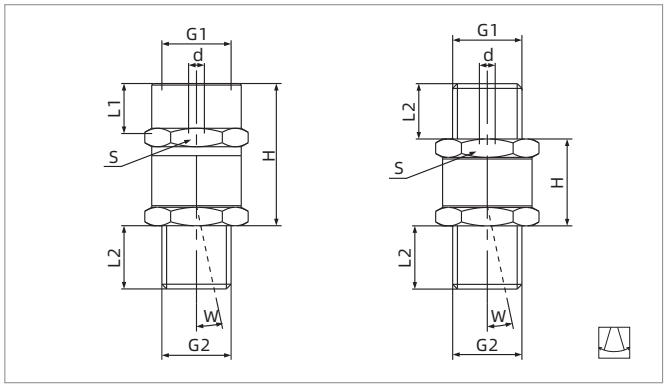
PJE - G2F - G2M
① ② ③

① series	② Vacuum port connection	③ Suction cup connection
PJE	G2M - G1/4 male thread	M10M - M10×1.25 male thread
	G4M - G1/2 male thread	G2M - G1/4 male thread
	G2F - G1/4 female thread	G4M - G1/2 male thread
	G4F - G1/2 female thread	

Selection

Model/Vacuum port connection G2M	G2F		G4M	G4F
PJE-G2M-G2M	PJE-G2F-M10M	PJE-G2F-G2M	PJE-G4M-G4M	PJE-G4F-G4M

Dimensions(mm)



PJE-F-M PJE-M-M

Model/Size	H	G1	L1	G2	L2	d	S	W	Weight g
PJE-G2F-M10M	27	G1/4	12	M10×1.25	8	3	17	12°	33.5
PJE-G2F-G2M	27	G1/4	12	G1/4	12	3	17	12°	39
PJE-G2M-G2M	16.5	G1/4	10.5	G1/4	12	3	17	12°	32.5
PJE-G4F-G4M	33.5	G1/2	14	G1/2	14	6	27	12°	105.5
PJE-G4M-G4M	21	G1/2	14	G1/2	14	6	27	12°	94.5

PB-02QEA

Make Smart  Go Together

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